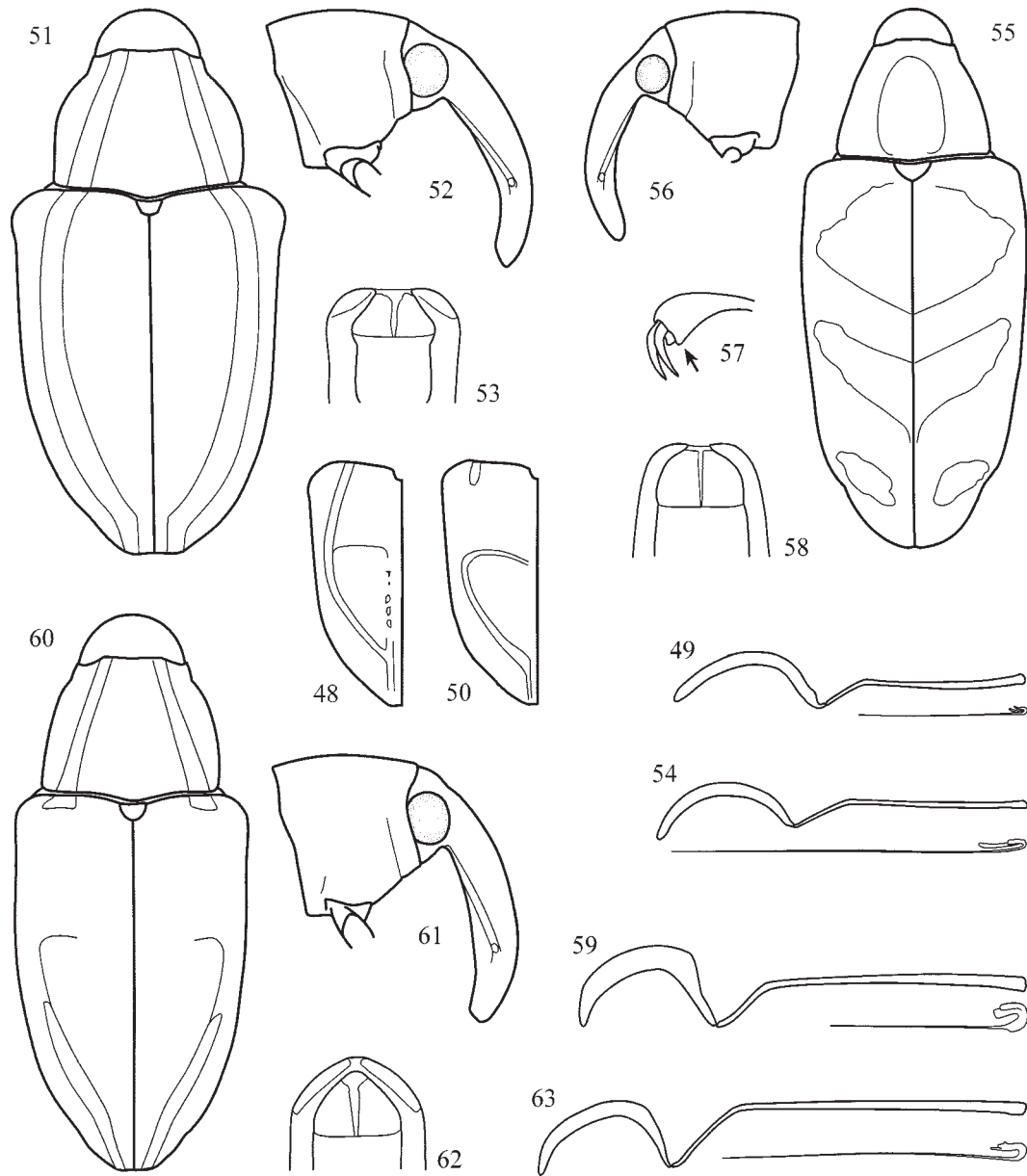
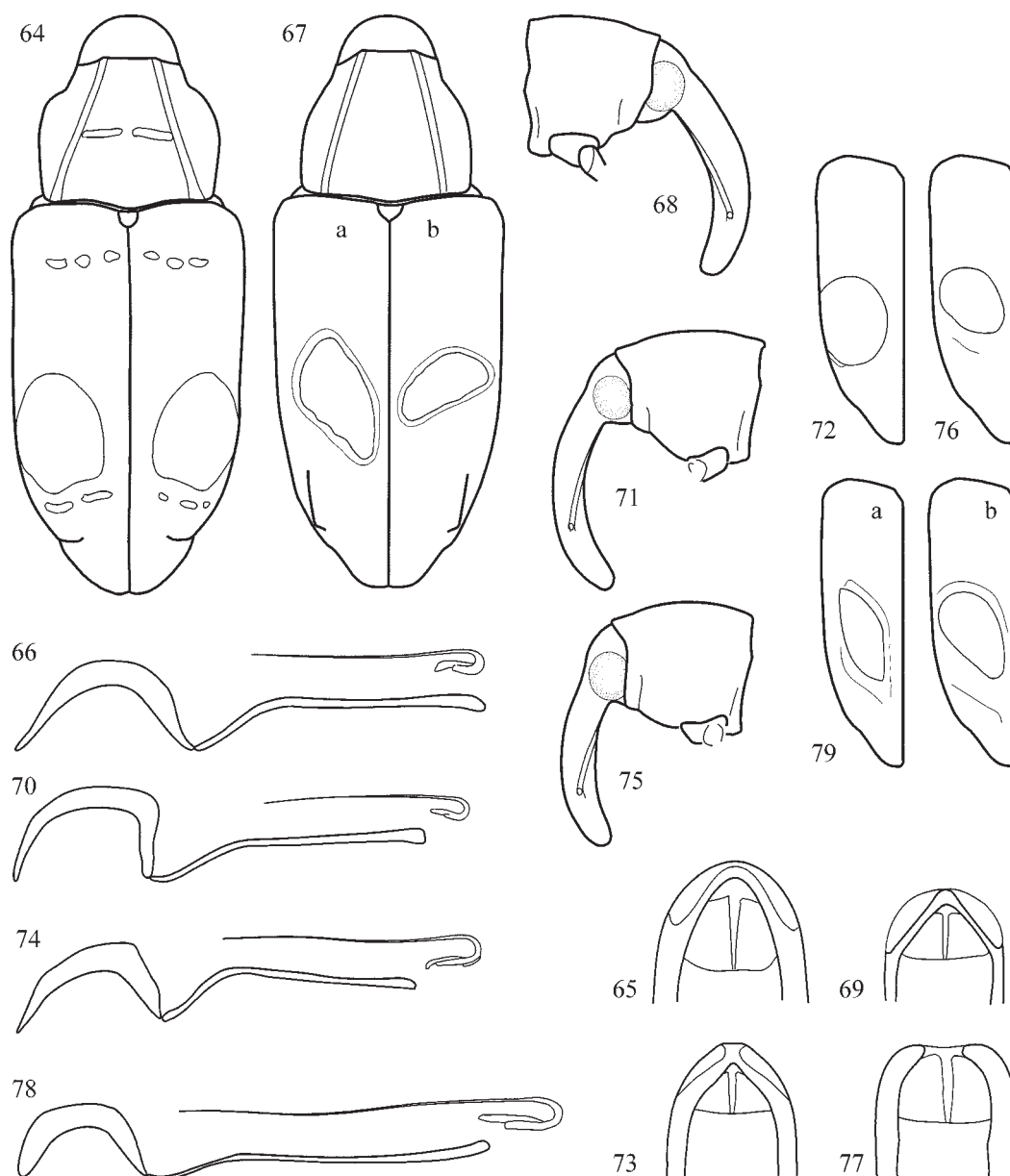


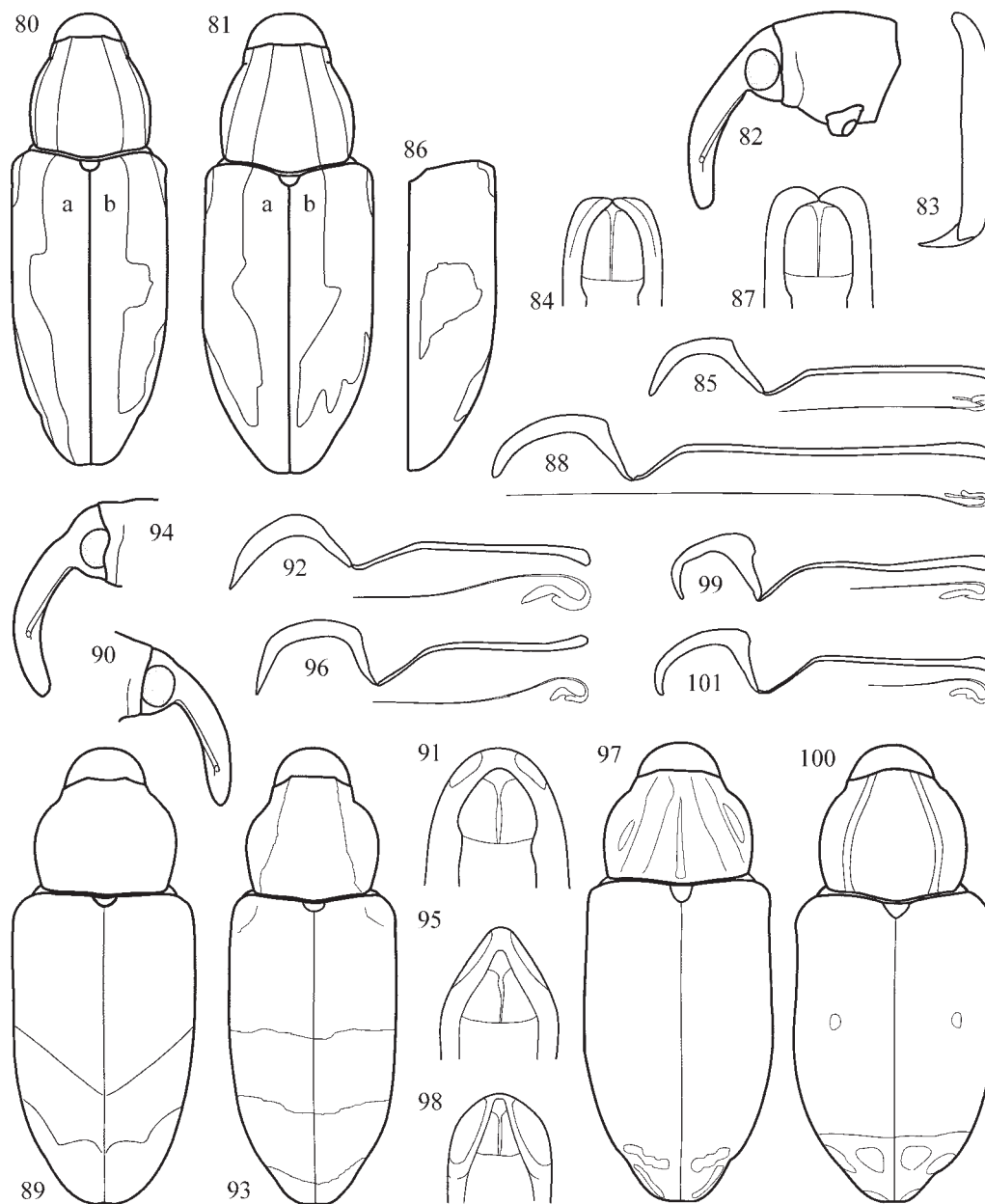
FIGURES 34–47. 34–36, *E. ornativentris*: 34, habitus and color-pattern, dorsal; 35, apex of aedeagus, dorsal; 36, aedeagus and flagellum, lateral. 37–39, *E. rugosus* (Costa Rica, Cerro Chucuyo): 37, habitus and color-pattern, dorsal; 38, apex of aedeagus, dorsal; 39, aedeagus and flagellum, lateral. 40, *E. solani* (Mexico, Teapa): habitus and color-pattern, dorsal. 41, *E. bisignatus*: habitus and color-pattern, dorsal. 42, *E. duplicatus*: left elytron with color-pattern. 43, *E. exclamationis*: habitus and color-pattern, dorsal. 44–47, *E. pauhans*: 44, habitus and color-pattern, dorsal; 45, head and prothorax, lateral; 46, apex of aedeagus, dorsal; 47, aedeagus and flagellum, lateral



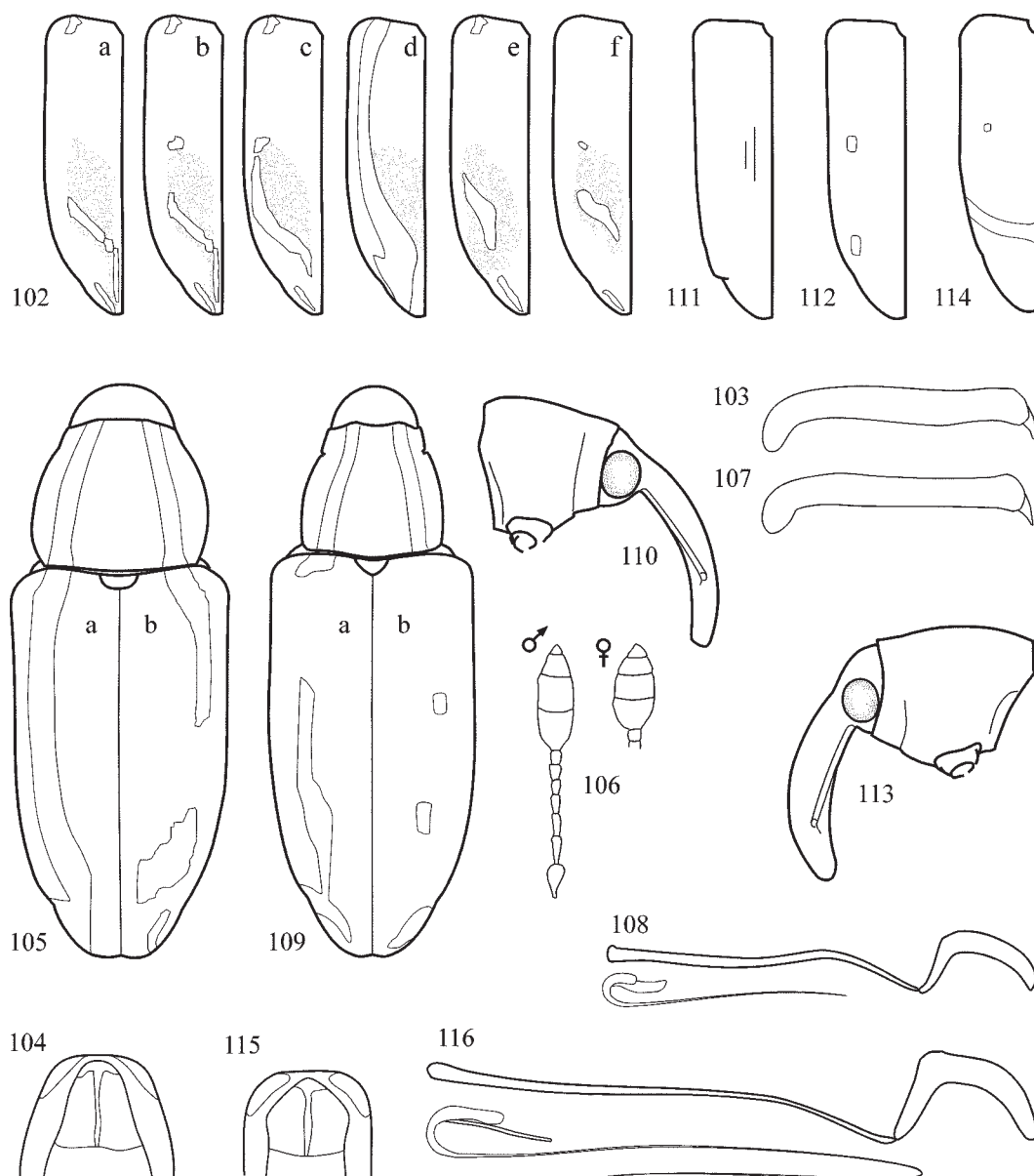
FIGURES 48–63. 48–49, *E. vestitus*: 48, left elytron with color-pattern; 49, aedeagus and flagellum, lateral. 50, *E. claveri*: left elytron with color-pattern. 51–54, *E. terrabanicus*: 51, habitus and color-pattern, dorsal; 52, head and prothorax, lateral; 53, apex of aedeagus, dorsal; 54, aedeagus and flagellum, lateral. 55–59, *E. scambus*: 55, habitus and color-pattern, dorsal; 56, head and prothorax, lateral; 57, tarsal segment 5; 58, apex of aedeagus, dorsal; 59, aedeagus and flagellum, lateral. 60–63, *E. griseolus* s. l. (Panama, Cerro Campana): 60, habitus and color-pattern, dorsal; 61, head and prothorax, lateral; 62, apex of aedeagus, dorsal; 63, aedeagus and flagellum, lateral



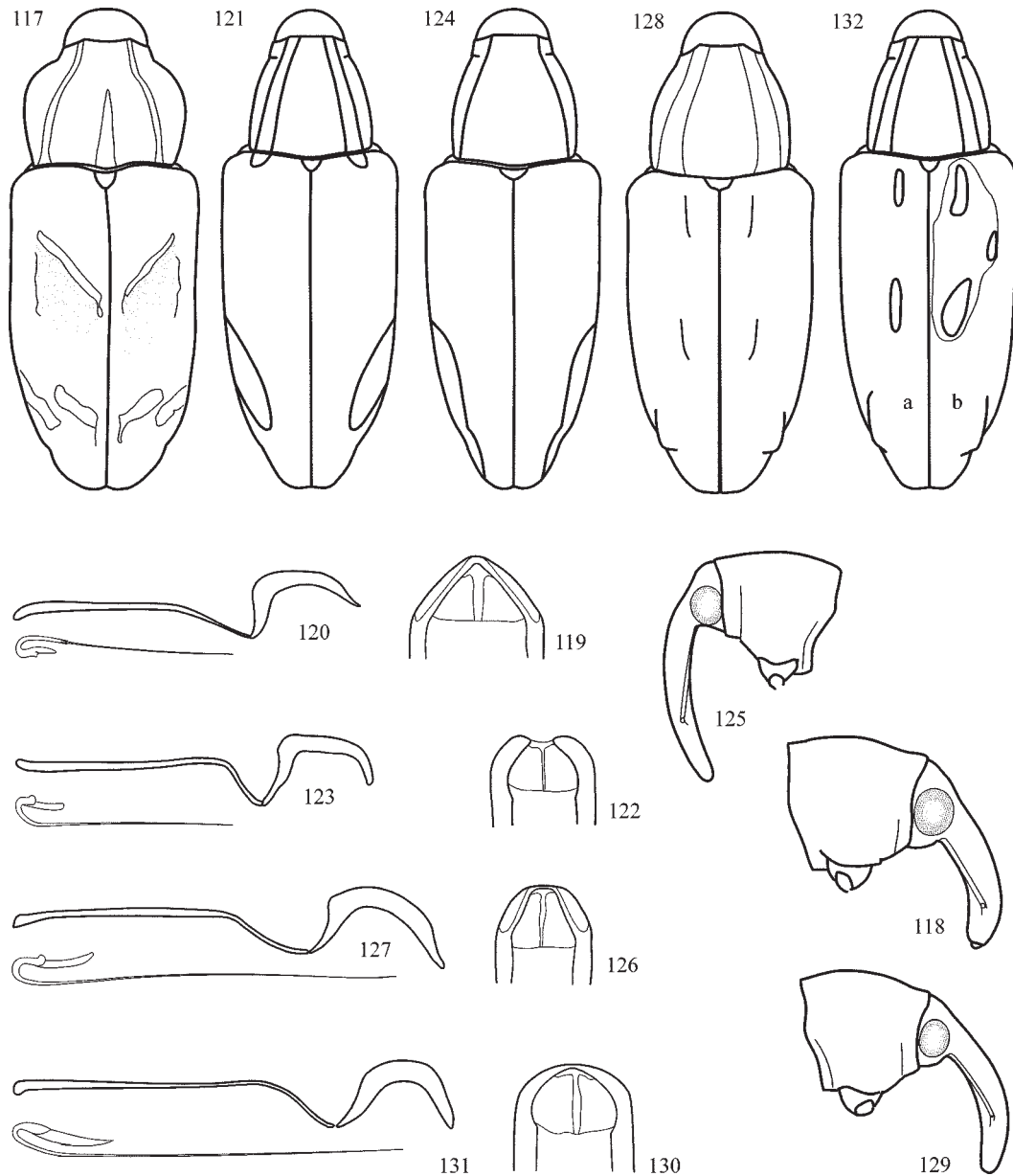
FIGURES 64–79. 64–66, *E. bicoctura*: 64, habitus and color-pattern, dorsal; 65, apex of aedeagus, dorsal; 66, aedeagus and flagellum, lateral. 67–70, *E. ocellatus*: 67, habitus and color-pattern, dorsal (a, nominal form: Mexico, Chiapas; b, aberrant form from Mexico, Oaxaca); 68, head and prothorax, lateral; 69, apex of aedeagus, dorsal; 70, aedeagus and flagellum, lateral. 71–74, *E. biguttatus*: 71, head and prothorax, lateral; 72, left elytron with color-pattern; 73, apex of aedeagus, dorsal; 74, aedeagus and flagellum, lateral. 75–78, *E. paucilimbatus*: 75, head and prothorax, lateral; 76, left elytron with color-pattern; 77, apex of aedeagus, dorsal; 78, aedeagus and flagellum, lateral. 79, *E. nigronotatus*: left elytron with color-pattern (a, nominal form; b, large-sized aberrant form)



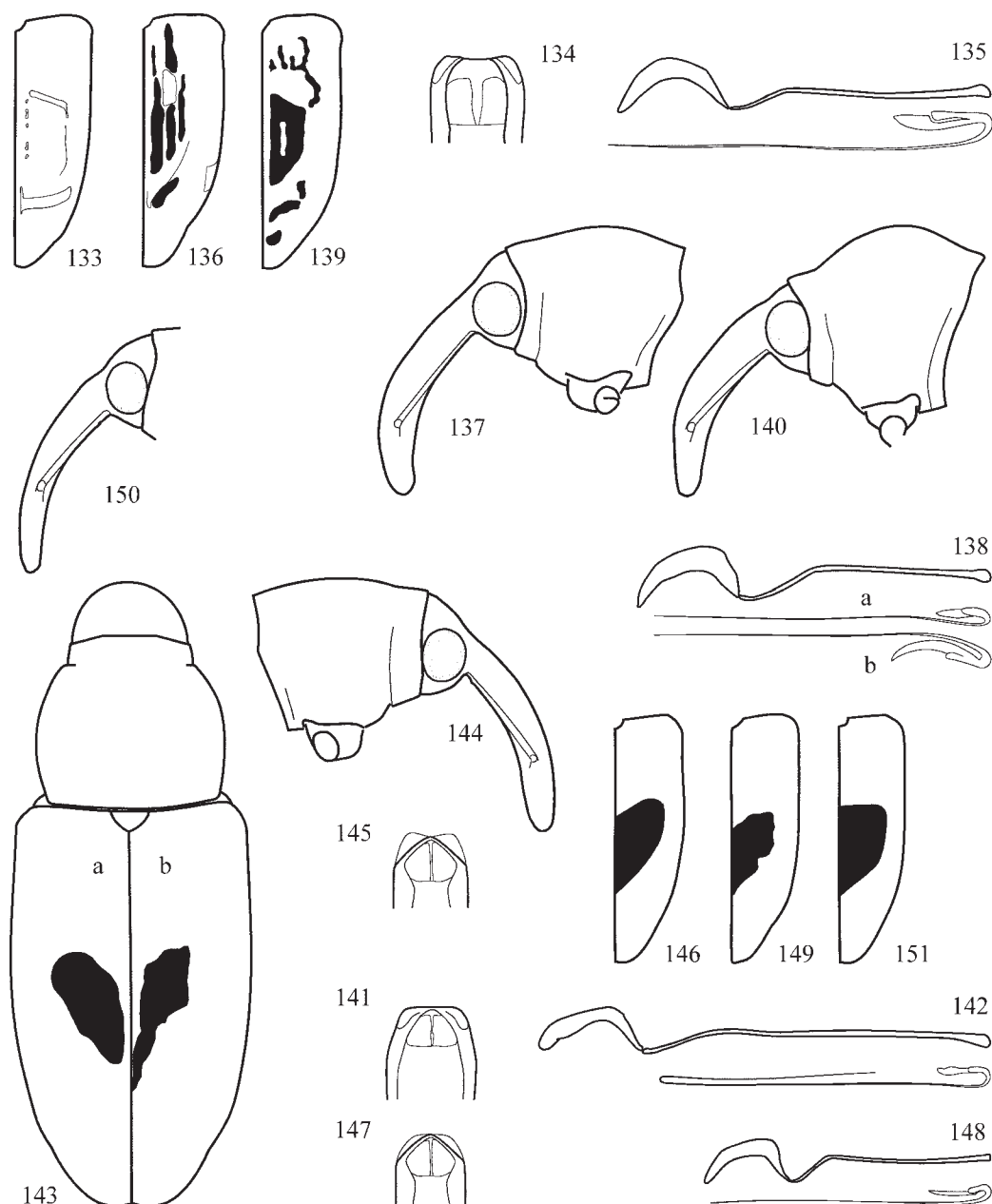
FIGURES 80–101. **80–85, *E. sinuatus*:** **80**, habitus and two color-patterns of high-elevation population (**a**, Puntarenas Prov., San Vito; **b**, Panamá Prov., Cerro Campana), dorsal; **81**, habitus and two color-patterns of lowland population (**a**, Limón Prov., Cerro Cocorí; **b**, Heredia Prov., Est. La Selva), dorsal; **82**, head and prothorax, lateral; **83**, protibia; **84**, apex of aedeagus, dorsal; **85**, aedeagus and flagellum, lateral. **86–88, *E. tetrastigma*:** **86**, right elytron with color-pattern; **87**, apex of aedeagus, dorsal; **88**, aedeagus and flagellum, lateral. **89–92, *E. pseudobumbraticus*:** **89**, habitus and color-pattern, dorsal; **90**, head, male, lateral; **91**, apex of aedeagus, dorsal; **92**, aedeagus and flagellum, lateral. **93–96, *E. burgeri*:** **93**, habitus and color-pattern, dorsal; **94**, head, male, lateral; **95**, apex of aedeagus, dorsal; **96**, aedeagus and flagellum, lateral. **97–99, *E. thoracicus*:** **97**, habitus and color-pattern, dorsal; **98**, apex of aedeagus, dorsal; **99**, aedeagus and flagellum, lateral. **100–101, *E. apicalis*:** **100**, habitus and color-pattern, dorsal; **101**, aedeagus and flagellum, lateral



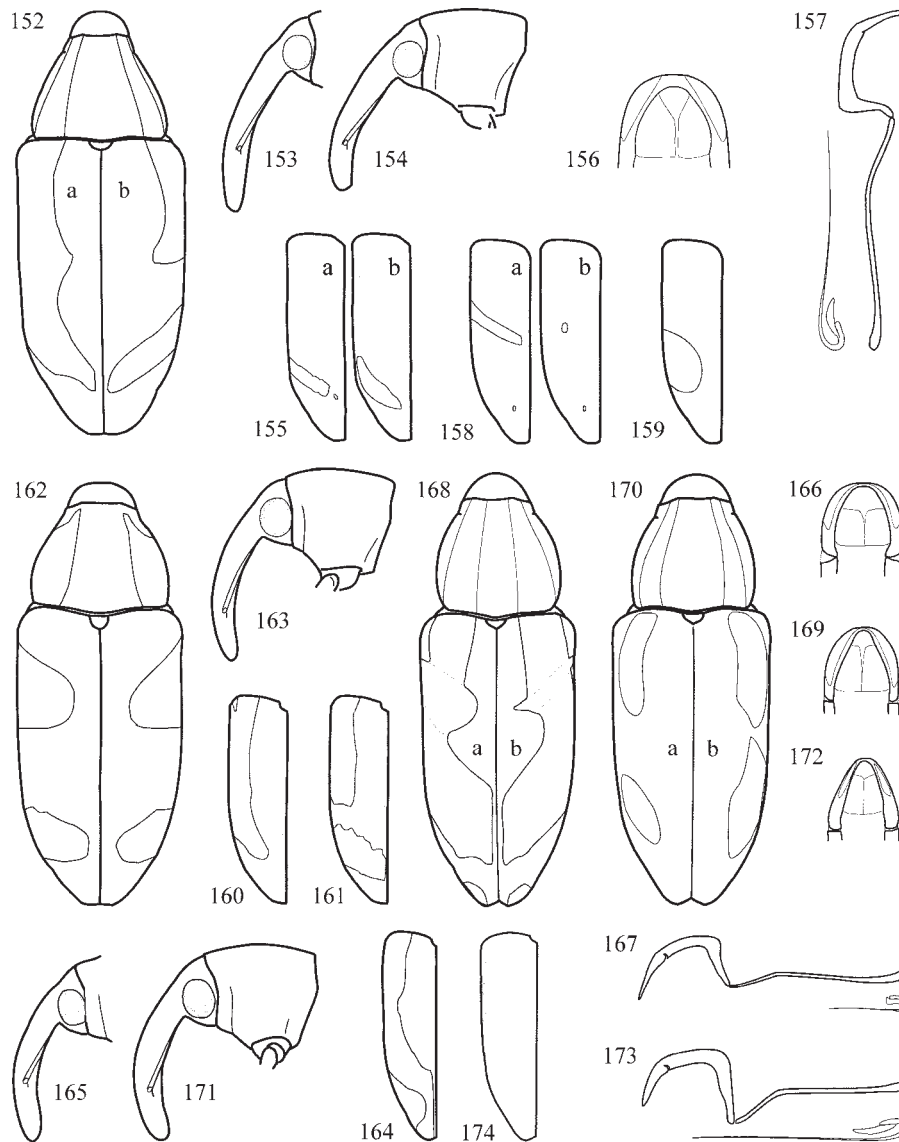
FIGURES 102–116. 102–104, *E. pictipennis*: 102, left elytron with regional color-patterns (**a**, Chiriquí Prov., Santa Clara; **b**, Puntarenas Prov., San Vito, two forms; **c**, Puntarenas Prov., Quepos; **d**, Puntarenas Prov., Monteverde; **e**, Heredia Prov., 10 km SE La Virgen); 103, metatibia; 104, apex of aedeagus, dorsal. 105–108, *E. discordabilis*: 105, habitus and two regional color-patterns (**a**, Heredia Prov., Est. La Selva; **b**, Limón Prov., Hitoy Cerere N.P.), dorsal; 106, antennal club, male and female; 107, metatibia; 108, aedeagus and flagellum. 109–110, *E. euscheme*: 109, dorsal habitus and two regional color-pattern (**a**, Chiriquí Prov., La Fortuna Res.; **b**, Cartago Prov., Tapantí N.P.); 110, head and prothorax, lateral. 111, *E. uniformis*: left elytron with carination. 112–113, *E. gracilis*: 112, left elytron with color-pattern; 113, head and prothorax, lateral. 114–116, *E. todillofasciatus*: 114, left elytron with color-pattern; 115, apex of aedeagus, dorsal; 116, aedeagus and flagellum, lateral



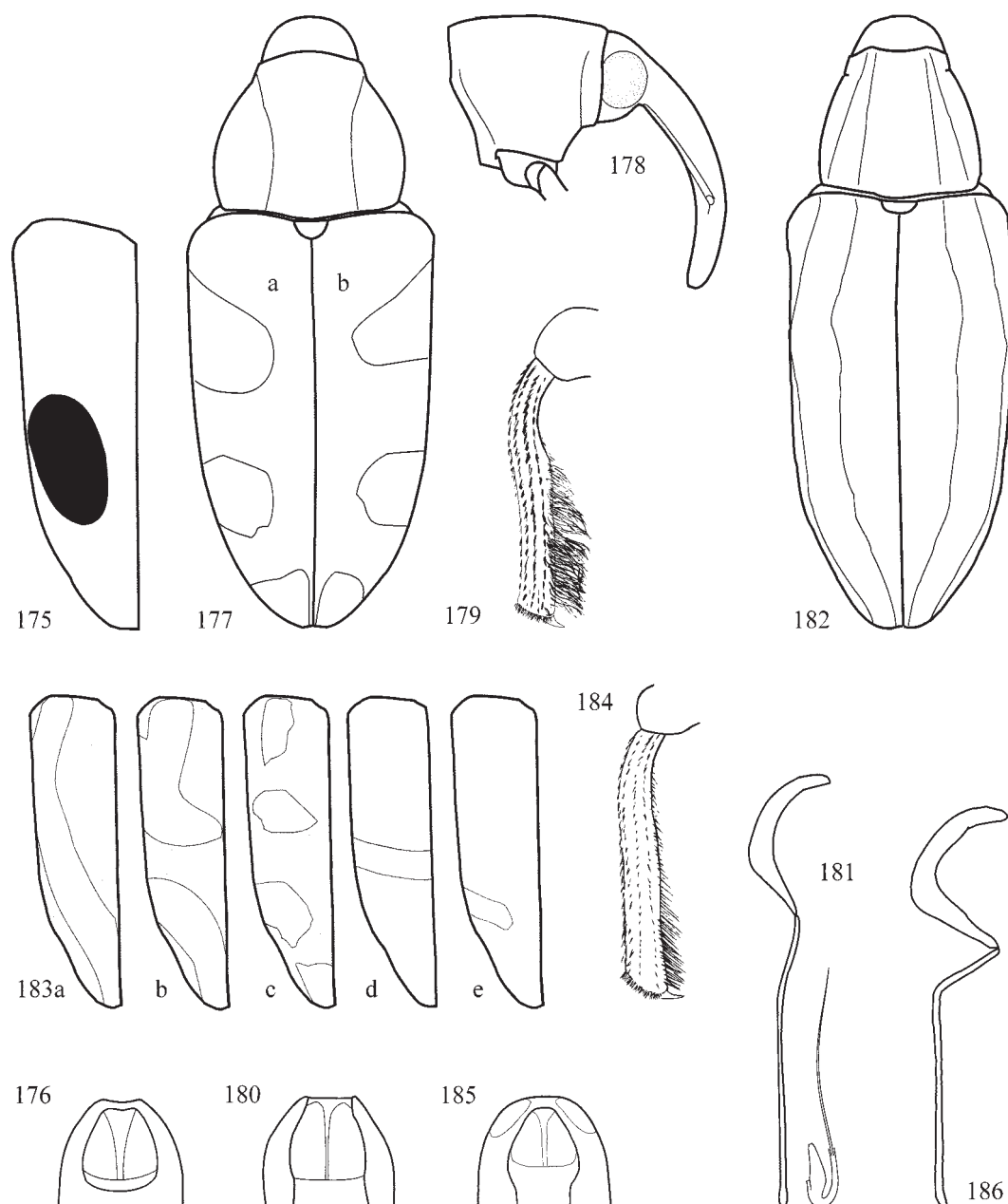
FIGURES 117–132. 117–120, *E. marchionis*: 117, habitus and color-pattern, dorsal; 118, head and prothorax, male, lateral; 119, apex of aedeagus, dorsal; 120, aedeagus and flagellum, lateral. 121–123, *E. peperomiae*: 121, habitus and color-pattern, dorsal; 122, apex of aedeagus, dorsal; 123, aedeagus and flagellum, lateral. 124–127, *E. galbinus*: 124, habitus and color-pattern, dorsal; 125, head and prothorax, male, lateral; 126, apex of aedeagus, dorsal; 127, aedeagus and flagellum, lateral. 128–132, *E. callifer*: 128, habitus and color-pattern, dorsal; 129, head and prothorax, lateral; 130, apex of aedeagus, dorsal; 131, aedeagus and flagellum, lateral; 132, habitus and two color-patterns of high-elevation populations (a, Boquete; b, Braulio Carrillo)



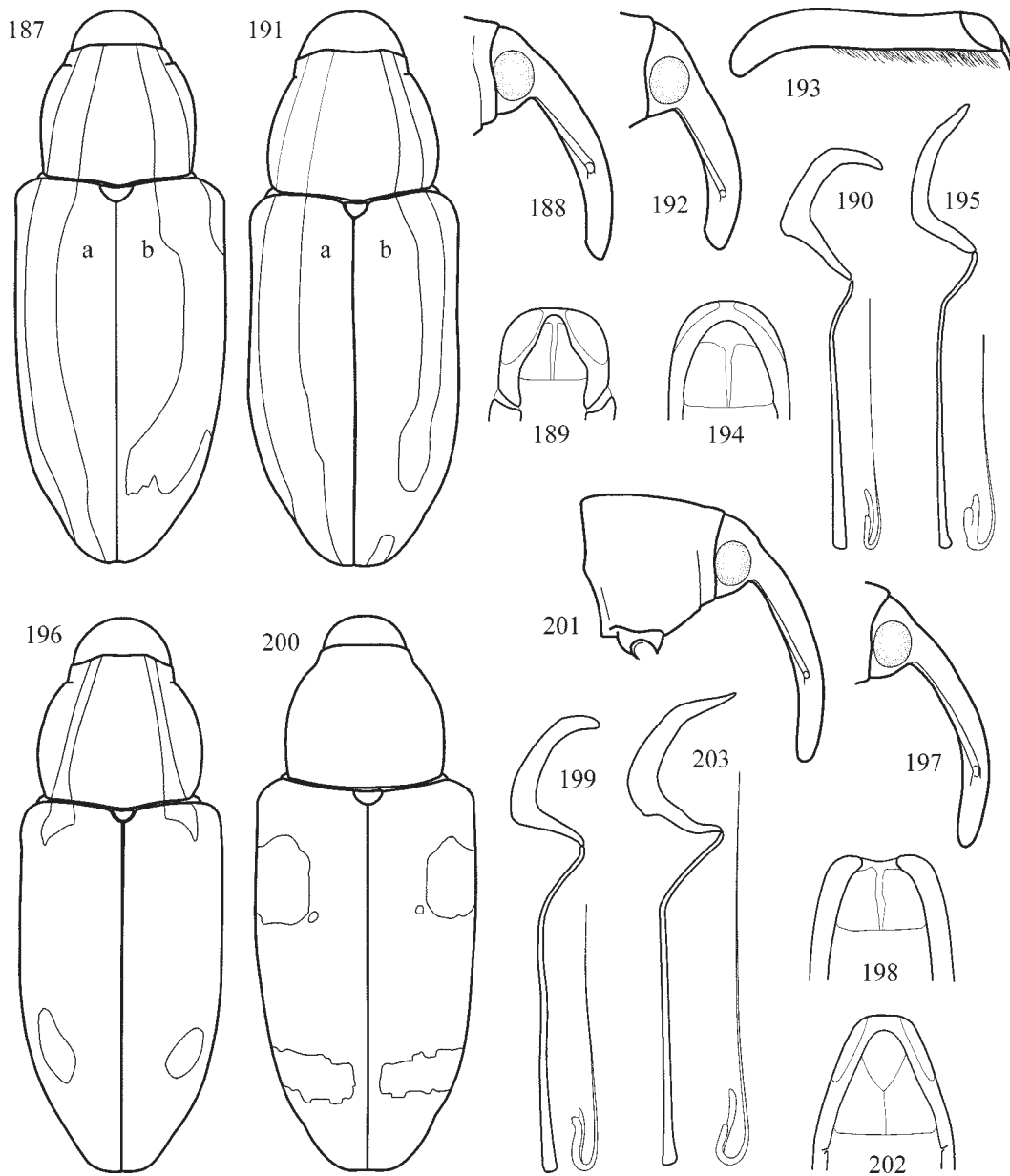
FIGURES 133–151. 133–135, *E. pullus*: 133, elytron with color-pattern; 134, apex of aedeagus, dorsal; 135, aedeagus and flagellum, lateral. 136–138, *E. chelys*: 136, elytron with color-pattern; 137, head and prothorax, male, lateral; 138, aedeagus and flagellum (a, Prov. Limón, Cerro Cocorí; b, Prov. Chiriquí, La Fortuna Res.), lateral. 139–142, *E. sagittifolicus*: 139, elytron with color-pattern; 140, head and prothorax, male, lateral; 141, apex of aedeagus, dorsal; 142, aedeagus and flagellum, lateral. 143–145, *E. euchasma*: 143, habitus with color-pattern (a, Prov. Heredia, 10 km SE La Virgen; b, Prov. Coclé, La Mesa); 144, head and prothorax, male, lateral; 145, apex of aedeagus, dorsal. 146–148, *E. cordiger*: 146, elytron with color-pattern; 147, apex of aedeagus, dorsal; 148, aedeagus and flagellum, lateral. 149–150, *E. subulirostris*: 149, elytron with color-pattern; 150, head, female, lateral. 151, *E. oculifer*: elytron with color-pattern



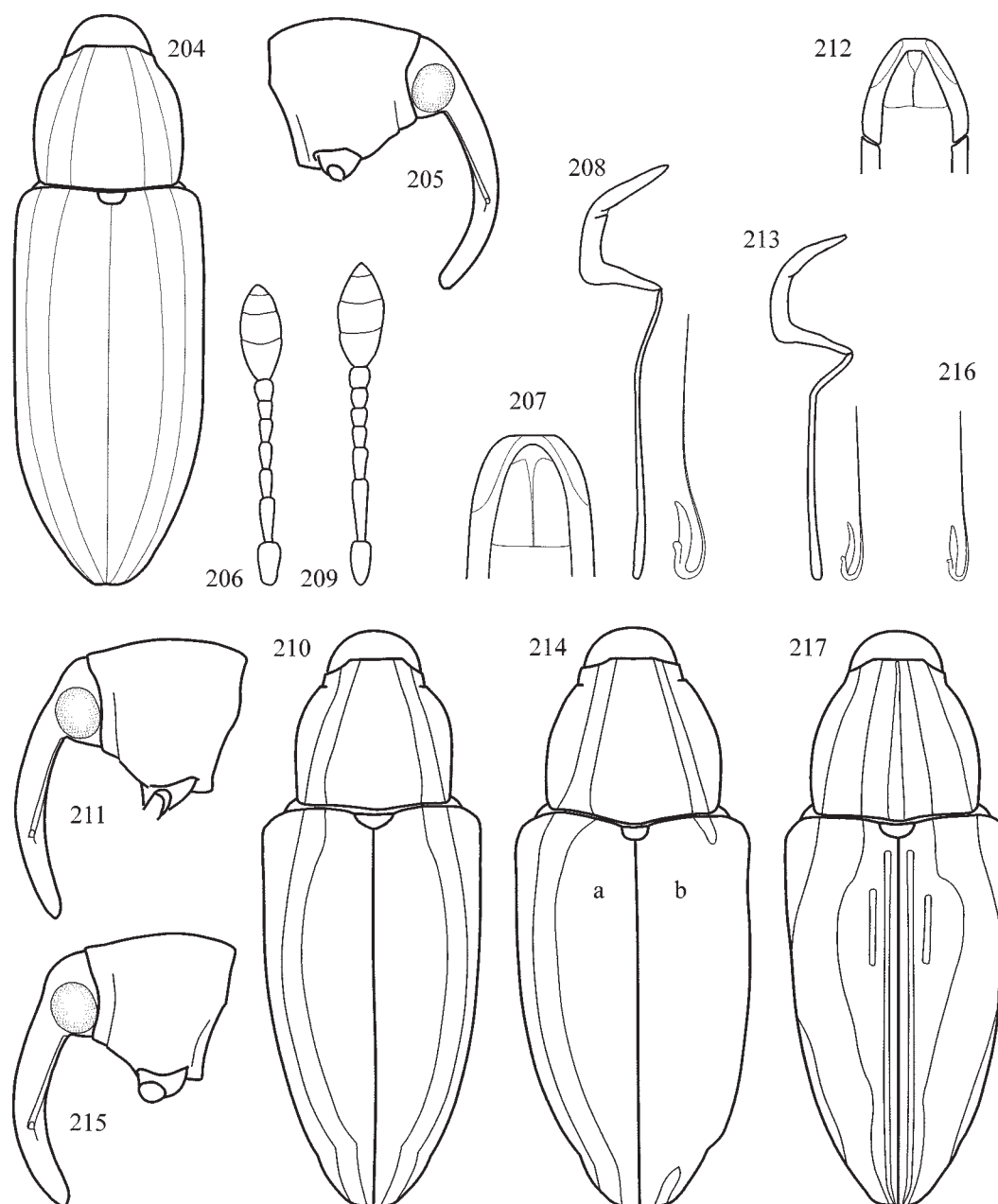
FIGURES 152–174. 152–154, *E. heilipoides*: 152, habitus and color-pattern (**a**, typical form; **b**, sensu lato), dorsal; 153, head, female, lateral; 154, head and prothorax, male, lateral. 155–157, *E. obliquus*: 155, elytron with color-patterns (**a**, Mexico, without site; **b**, Mexico, San Andrés Tuxtla); 156, apex of aedeagus, dorsal; 157, aedeagus and flagellum, lateral. 158–161, elytron with color-pattern; 158, *E. fasciolatus* (**a**, typical form; **b**, with fascia reduced); 159, *E. flavoplagiatus*; 160, *E. albovittatus*; 161, *E. discissus*. 162–163, *E. championi*: 162, habitus and color-pattern, dorsal; 163, head and prothorax, male, lateral. 164–167, *E. justini*: 164, elytron with color-pattern; 165, head, male, lateral; 166, apex of aedeagus, dorsal; 167, aedeagus and flagellum, lateral. 168–169, *E. rhombifer*: 168, habitus and two regional color-patterns (**a**, Chiriquí Prov., Las Lagunas; **b**, Puntarenas Prov., Las Mellizas; composite nature of color-pattern indicated by gray lines), dorsal; 169, apex of aedeagus, dorsal. 170–173, *E. consimilis*: 170, habitus and two regional color-patterns (**a**, Panama Prov., Cerro Campana; **b**, Canal Area), dorsal; 171, head and prothorax, male, lateral; 172, apex of aedeagus, dorsal; 173, aedeagus and flagellum, lateral. *E. rutilus*: 174, elytron with color-pattern



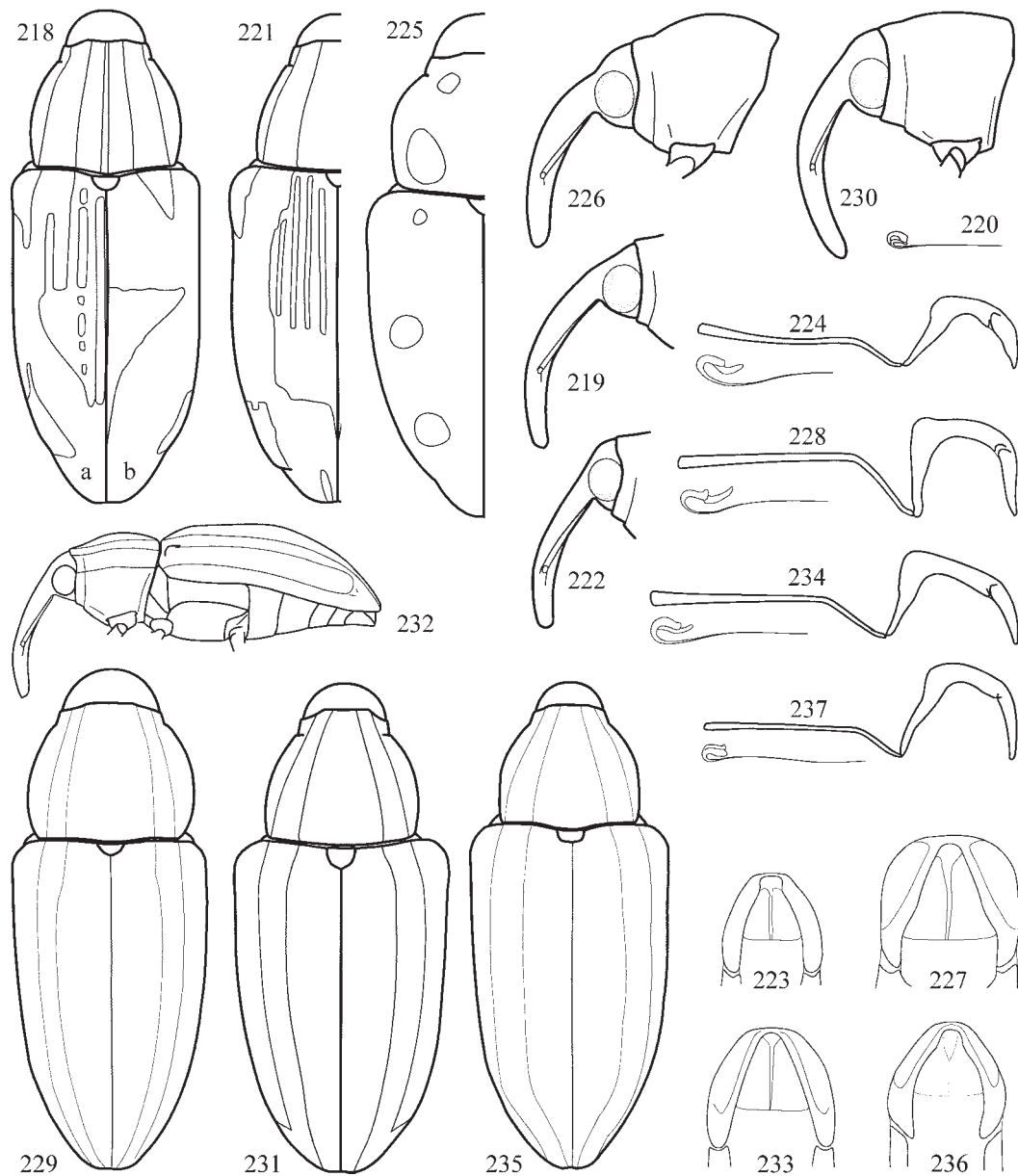
FIGURES 175–186. 175–176, *E. melanops*: 175, left elytron with color-pattern; 176, apex of aedeagus, dorsal. 177–181, *E. cretifer*: 177, habitus and color-pattern (a, Chontales, Nicaragua; b, San Carlos, Costa Rica), dorsal; 178, head and prothorax, male, lateral; 179, metatibia, male, lateral; 180, apex of aedeagus, dorsal; 181, aedeagus and flagellum, lateral. 182–186, *E. polymorphus*: 182, habitus and color-pattern of ssp. *polymorphus*, dorsal; 183a–e, left elytron with color-pattern of ssp. *altrimsecus*, *tabulensis*, *fortunensis*, *zeledonensis*, *dotensis*; 184, metatibia, male, lateral; 185, apex of aedeagus, dorsal; 186, aedeagus, lateral



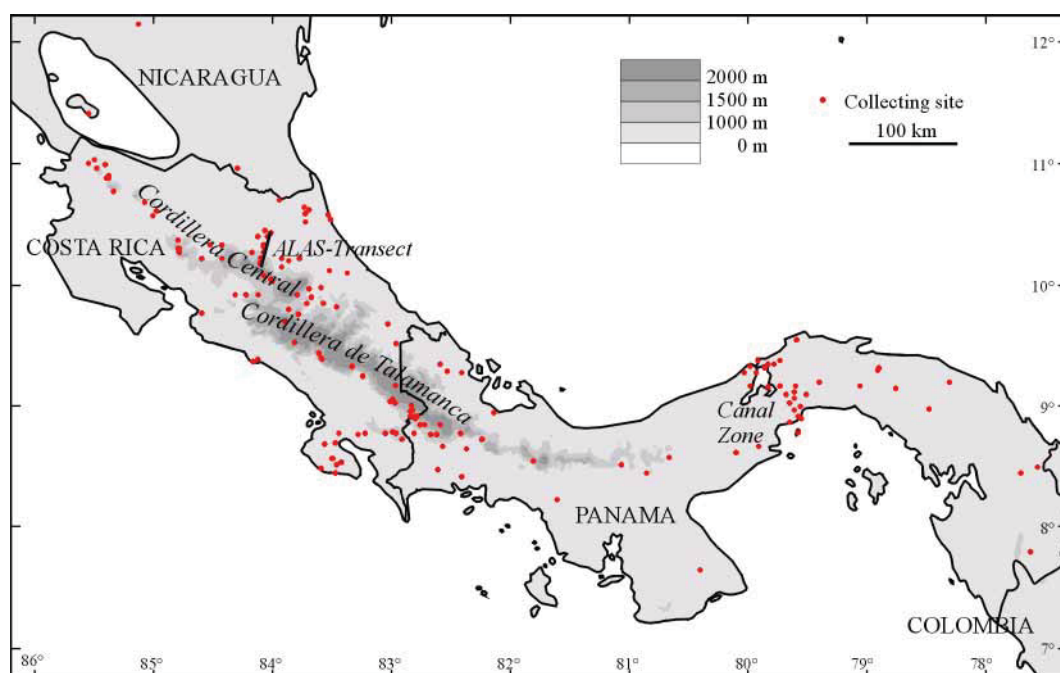
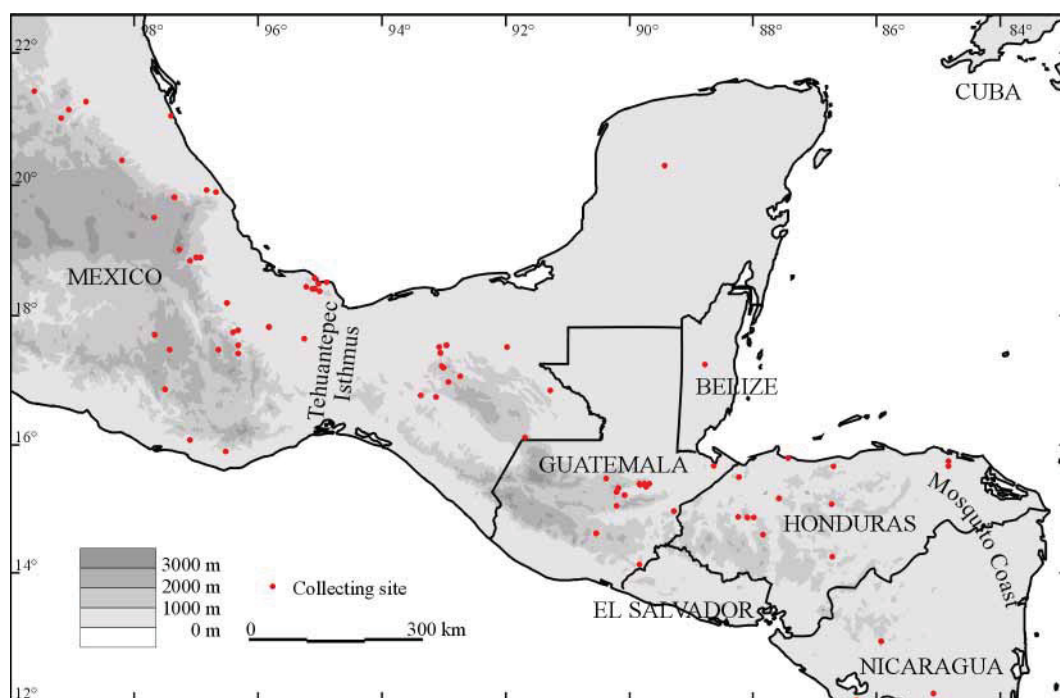
FIGURES 187–203. 187–190, *E. crinipes*: 187, habitus and color-pattern (**a**, Costa Rica, La Selva; **b**, Panama, Portobelo), dorsal; 188, head, male, lateral; 189, apex of aedeagus, dorsal; 190, aedeagus and flagellum, lateral. 191–195, *E. latevittatus*: 191, habitus and color-pattern (**a**, Costa Rica, Las Mellizas; **b**, Costa Rica, La Selva), dorsal; 192, head, male, lateral; 193, metatibia, male, lateral; 194, apex of aedeagus, dorsal; 195, aedeagus and flagellum, lateral. 196–199, *E. kunicus*: 196, habitus and color-pattern, dorsal; 197, head, male, lateral; 198, apex of aedeagus, dorsal; 199, aedeagus and flagellum, lateral. 200–203, *E. paludicola*: 200, habitus and color-pattern, dorsal; 201, head and prothorax, male, lateral; 202, apex of aedeagus, dorsal; 203, aedeagus and flagellum, lateral



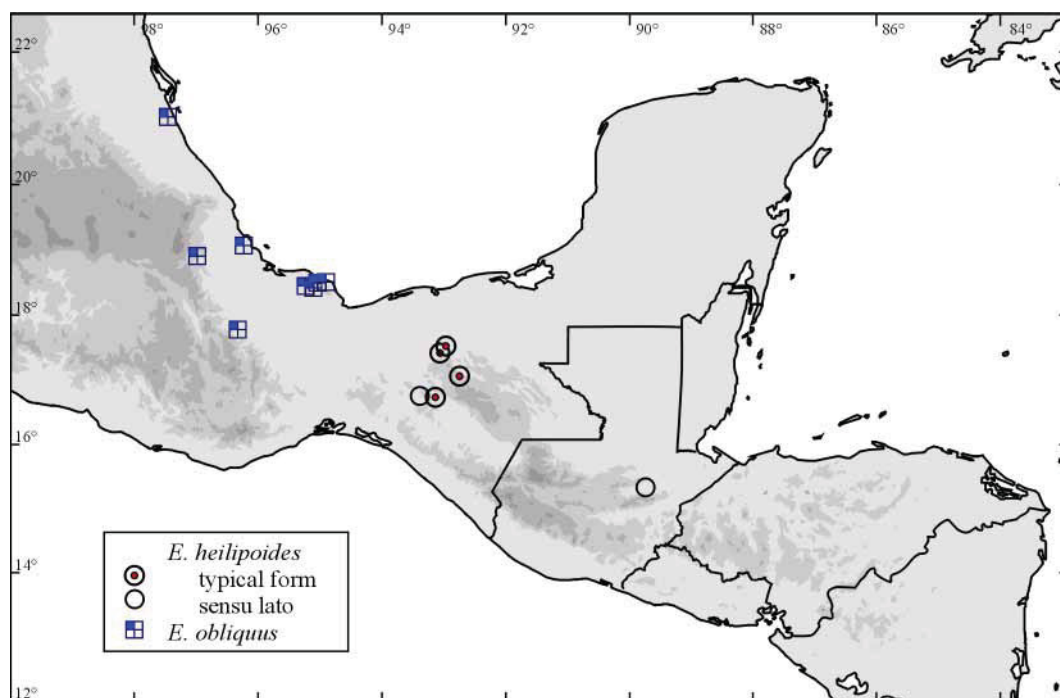
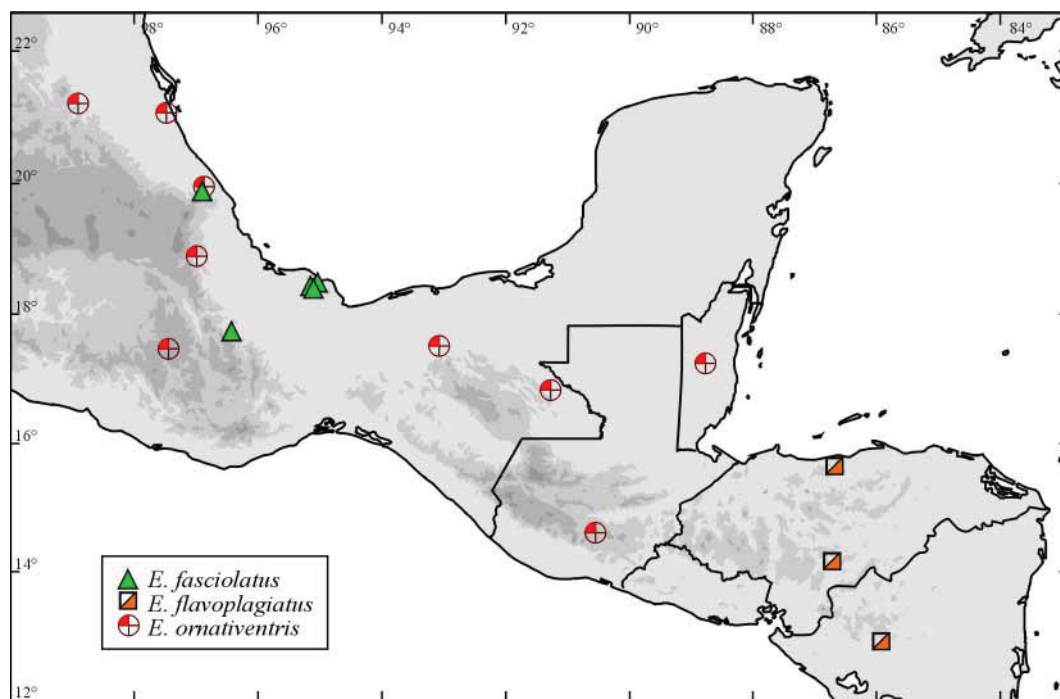
FIGURES 204–217. **204–208**, *E. aliquantulus*: **204**, habitus and color-pattern, dorsal; **205**, head and prothorax, male, lateral; **206**, funicle, male; **207**, apex of aedeagus, dorsal; **208**, aedeagus and flagellum, lateral. **209**, *E. aequiperabilis*: funicle, male. **210–213**, *E. leucopleura leucopleura* (Fortuna, Panama): **210**, habitus and color-pattern, dorsal; **211**, head and prothorax, male, lateral; **212**, apex of aedeagus, dorsal; **213**, aedeagus and flagellum, lateral. **214–216**, *E. leucopleura discolor*: **214**, habitus and color-pattern (**a**, Costa Rica, 16 km W Guápiles; **b**, Costa Rica, 10 km SE La Virgen), dorsal; **215**, head and prothorax, male, lateral; **216**, flagellum, lateral. **217**, *E. intermedius*: habitus and color-pattern, dorsal



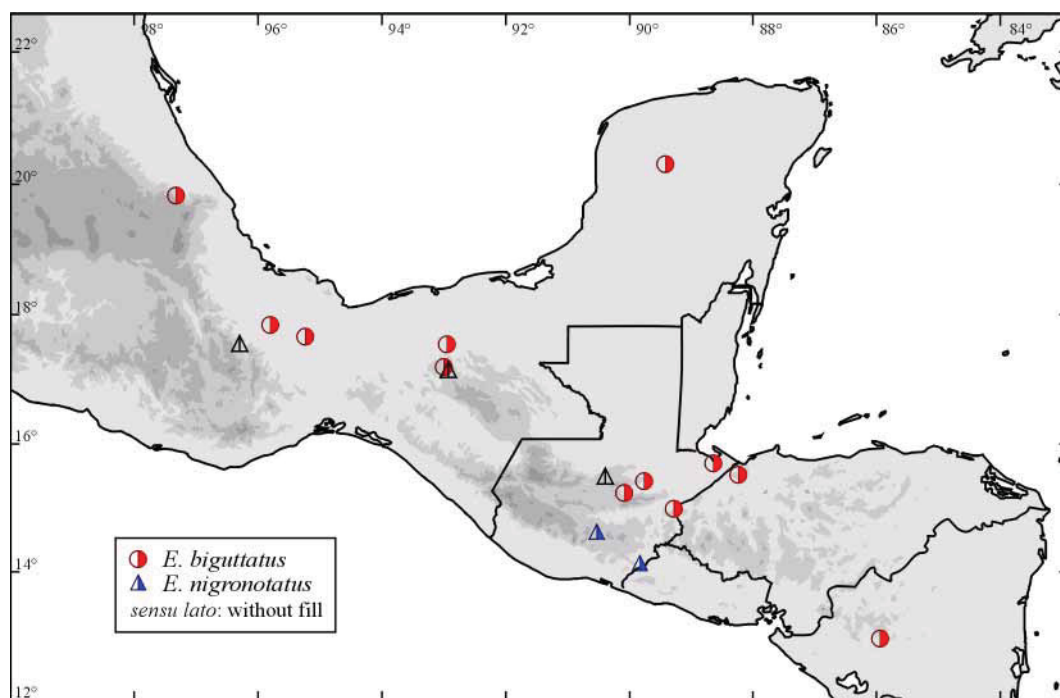
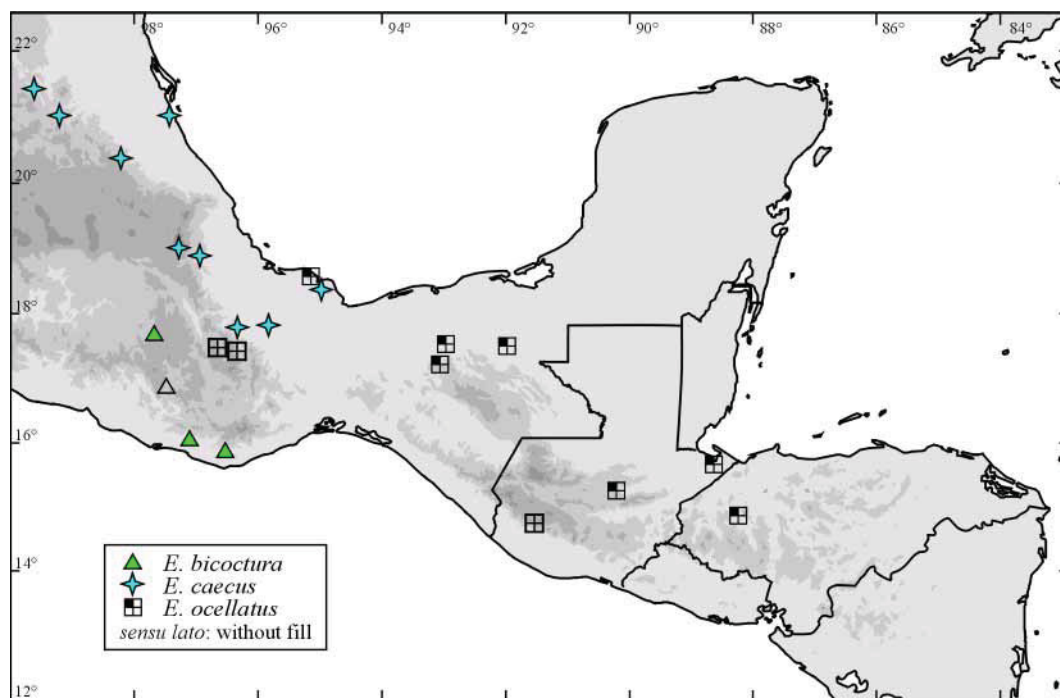
FIGURES 218–237. 218–220, *E. belti*: 218, habitus and color-pattern (a, Costa Rica, La Selva; b, Costa Rica, San Vito), dorsal; 219, head, male, lateral; 220, flagellum. 221–224, *E. politus*: 221, habitus and color-pattern, dorsal; 222, head, male, lateral; 223, apex of aedeagus, dorsal; 224, aedeagus and flagellum, lateral. 225–228, *E. maculifer*: 225, habitus and color-pattern, dorsal; 226, head and prothorax, male, lateral; 227, aedeagus and flagellum, lateral; 228, apex of aedeagus, dorsal. 229–230, *E. clandestinus*: 229, habitus and color-pattern, dorsal; 230, head and prothorax, female, lateral. 231–234, *E. flavolimbatus*: 231, habitus and color-pattern, dorsal; 232, habitus and color-pattern, male, lateral; 233, apex of aedeagus, dorsal; 234, aedeagus and flagellum, lateral. 235–237, *E. gilvopictus*: 235, habitus and color-pattern, dorsal; 236, apex of aedeagus, dorsal; 237, aedeagus and flagellum, lateral



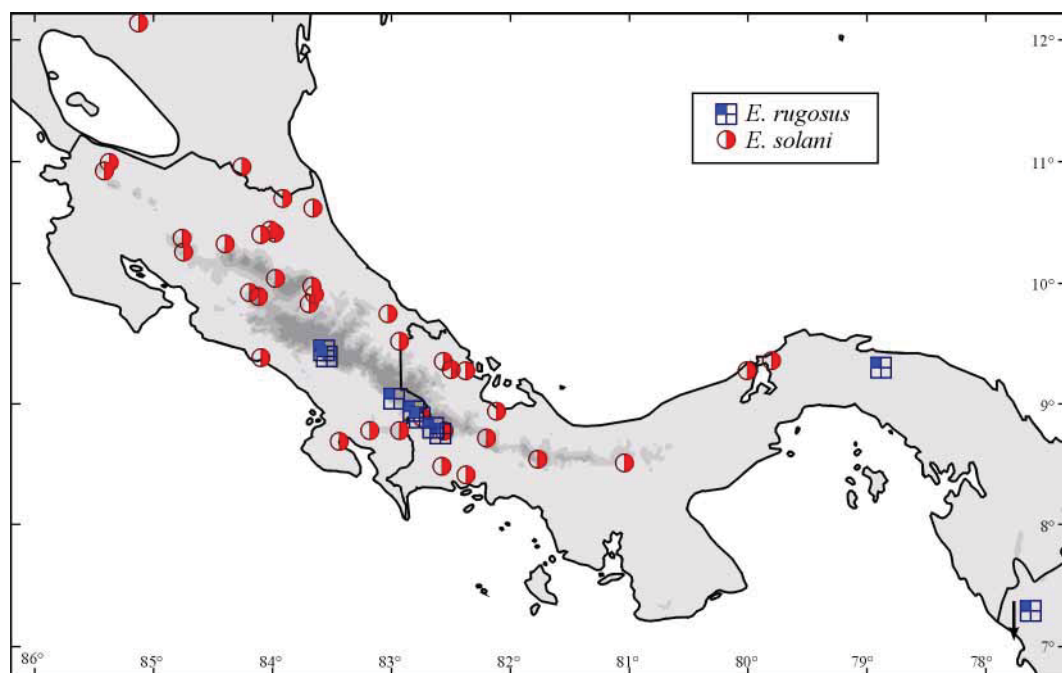
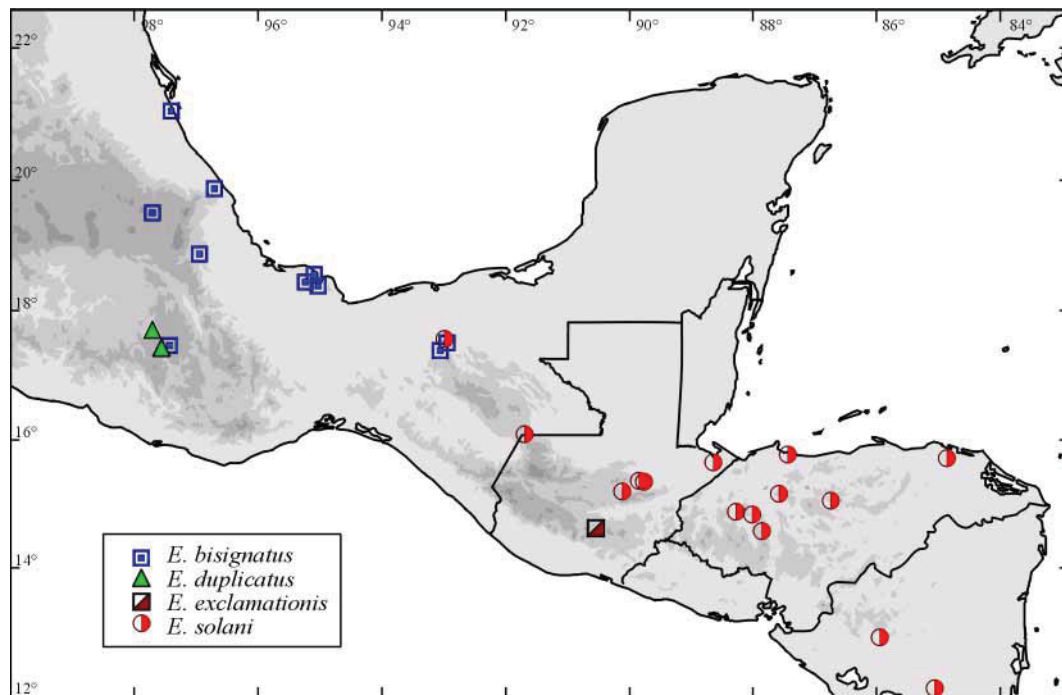
FIGURES 238–239. Map of northern and southern Middle America showing topographic relief, border lines, geographic names used in the text and collecting sites of species of *Embates*



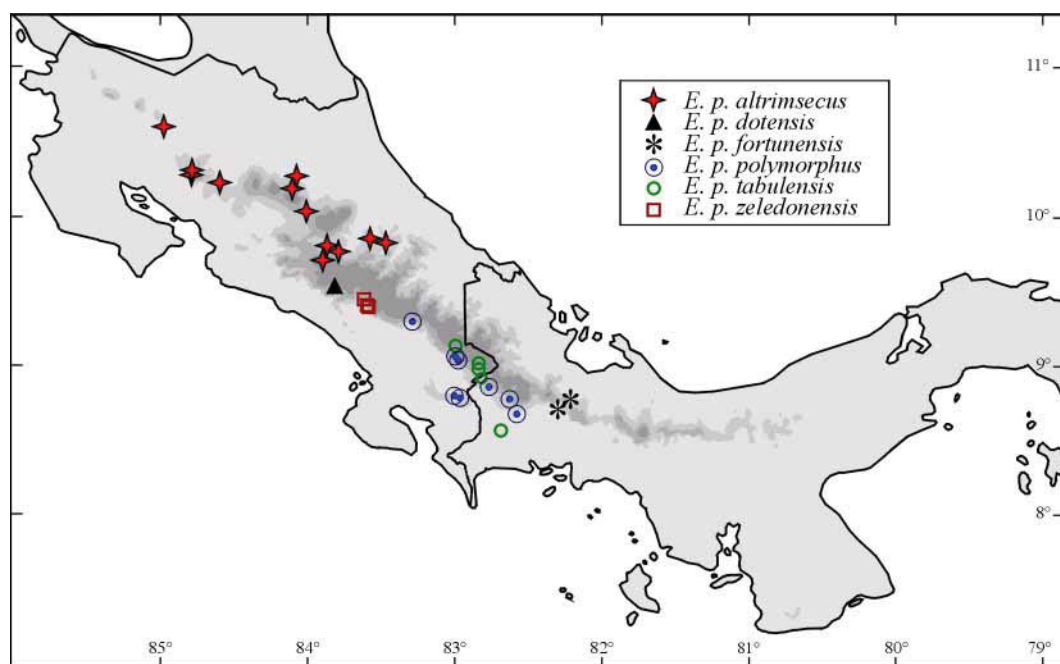
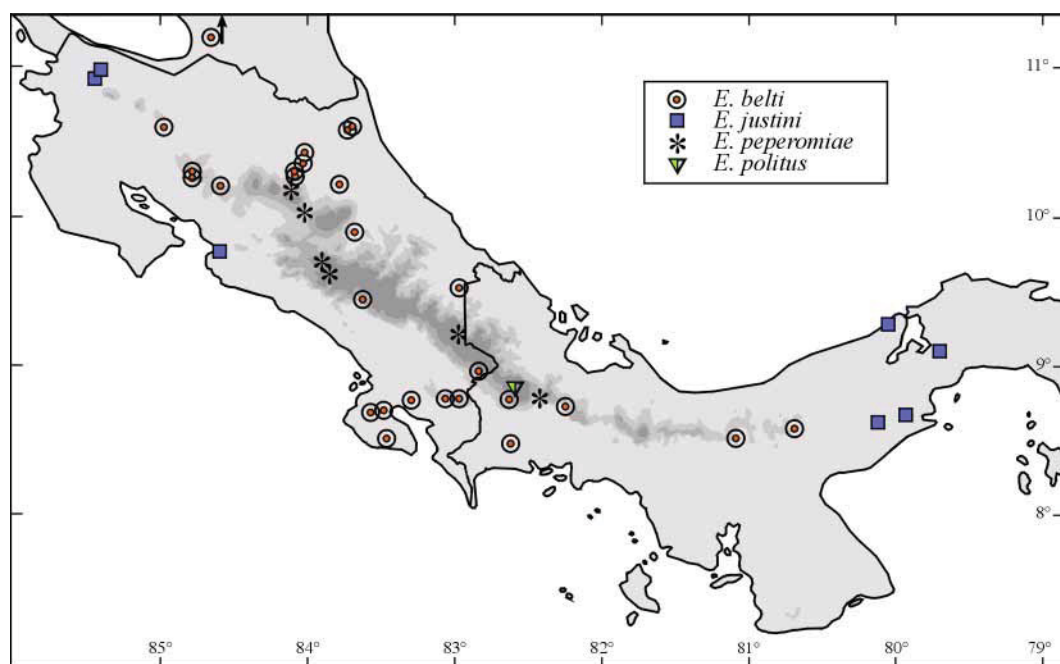
FIGURES 240–241. Maps showing collecting sites of species of *Embates* in northern Middle America. **240**, *E. fasciolatus*, *E. flavoplagiatus* and *E. ornativentris*; **241**, *E. heilipoides* and *E. obliquus*



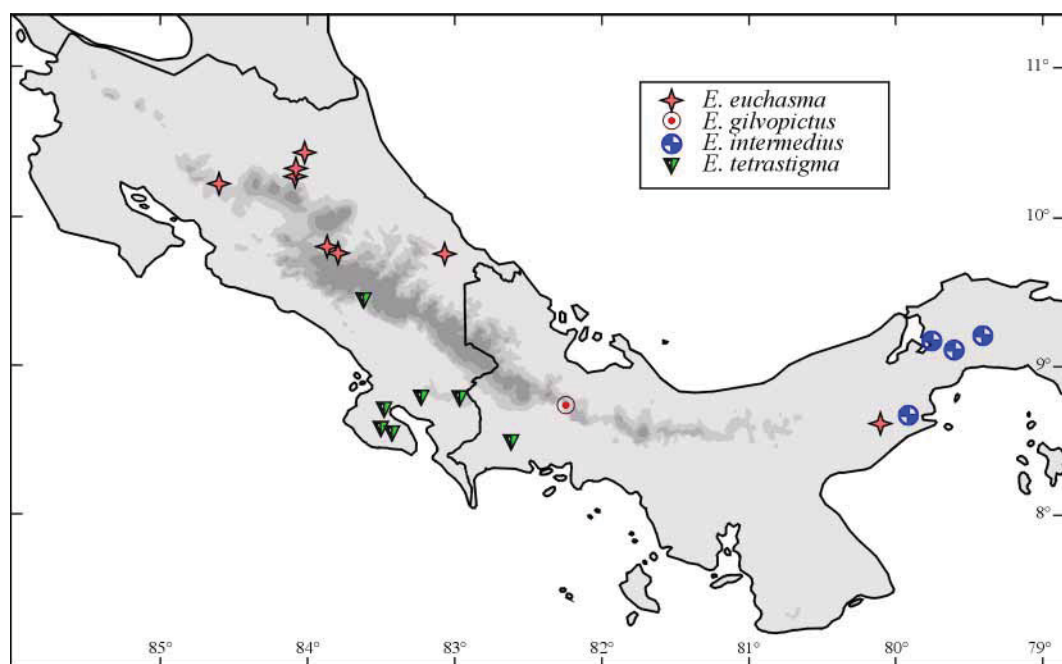
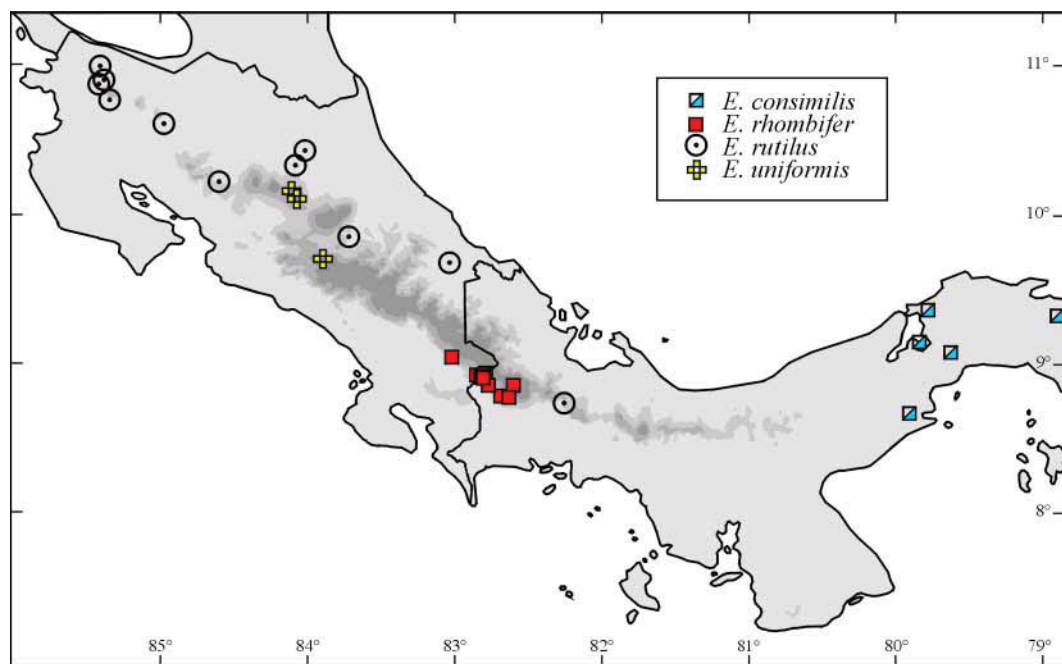
FIGURES 242–243. Maps showing collecting sites of species of *Embates* in northern Middle America. **242**, *E. bicoctura*, *E. caecus* and *E. ocellatus*; **243**, *E. biguttatus* and *E. nigronotatus*.



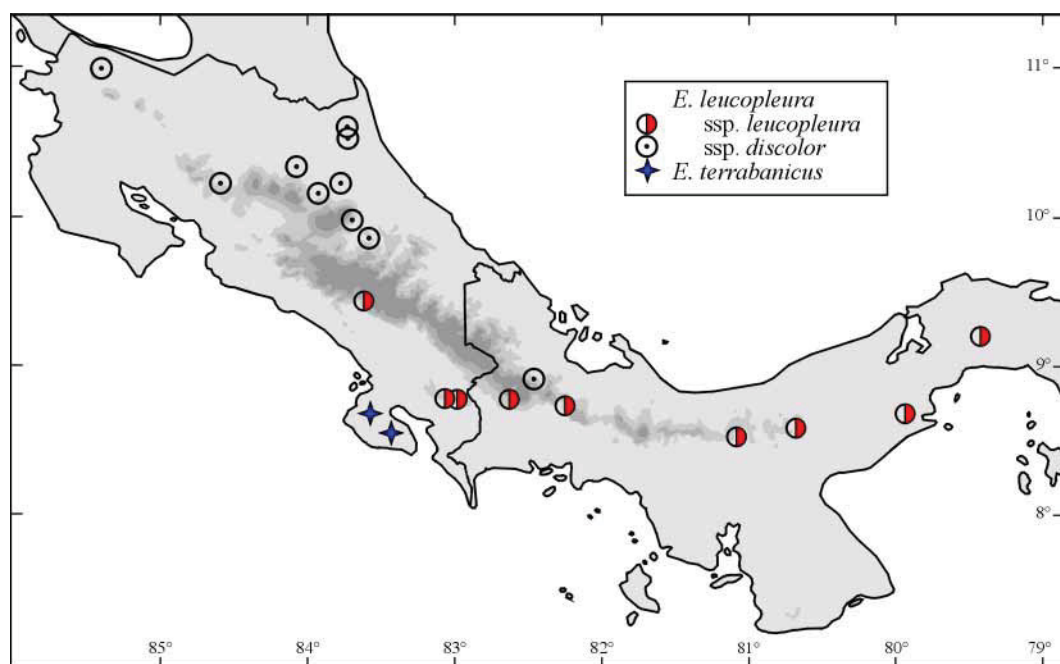
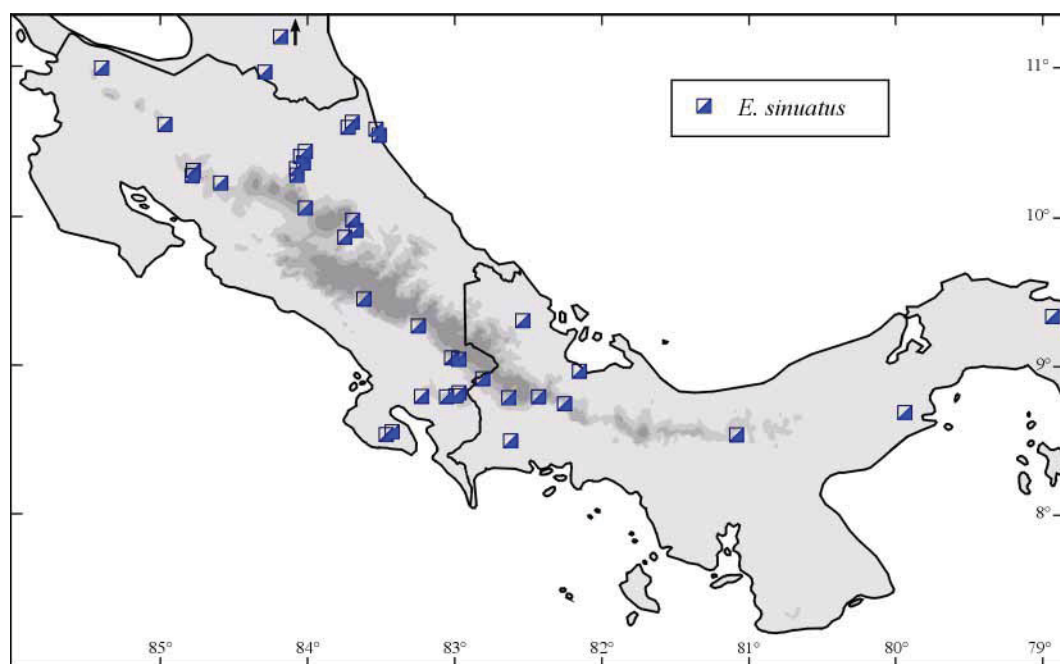
FIGURES 244–245. Maps showing collecting sites of species of *Embates* in northern and southern Middle America. **244**, *E. bisignatus*, *E. duplicatus*, *E. exclamatoris* and *E. solani* (northern part); **245**, *E. rugosus* and *E. solani*



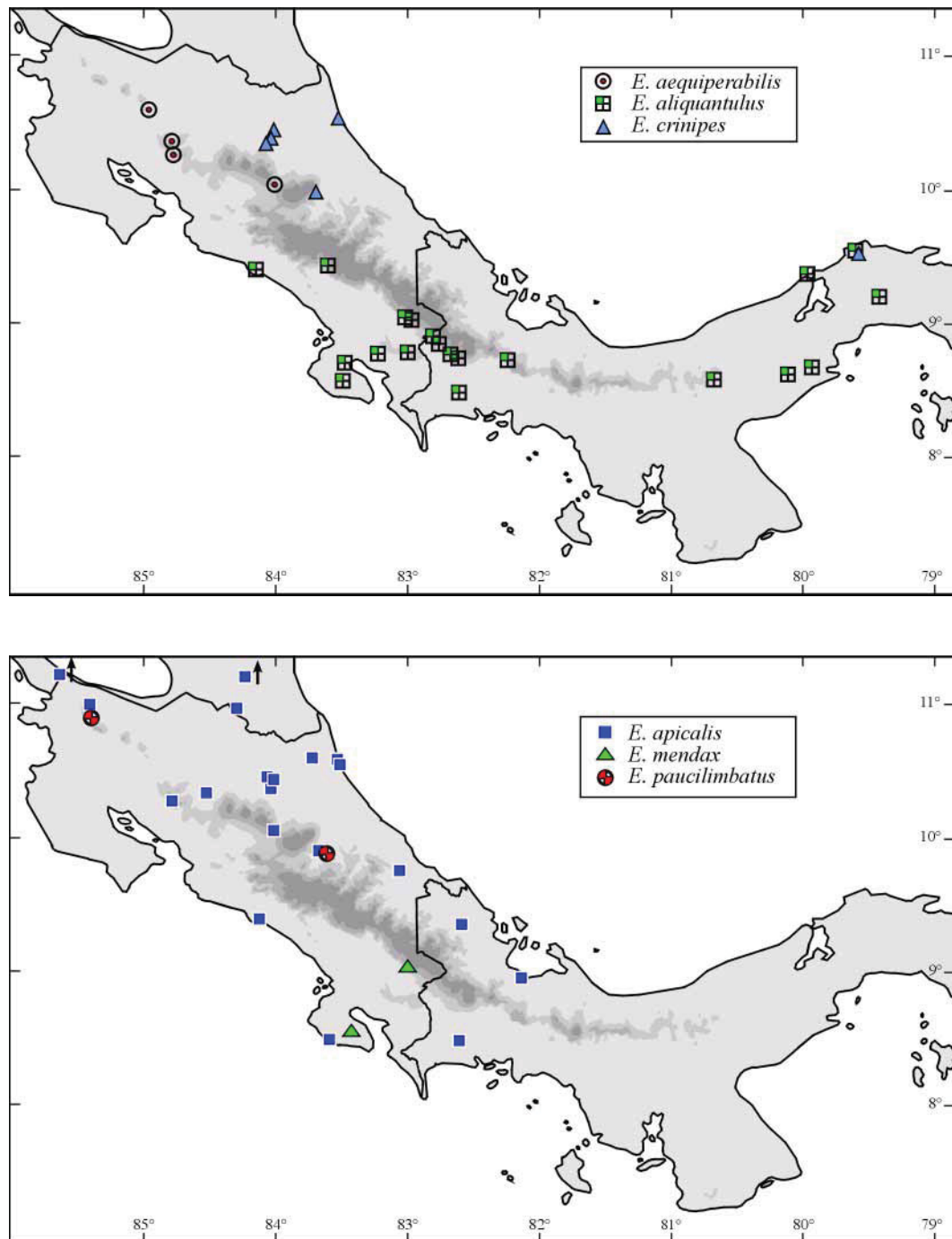
FIGURES 246–247. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **246**, *E. belti*, *E. justini*, *E. peperomiae* and *E. politus*; **247**, *E. polymorphus* with six subspecies



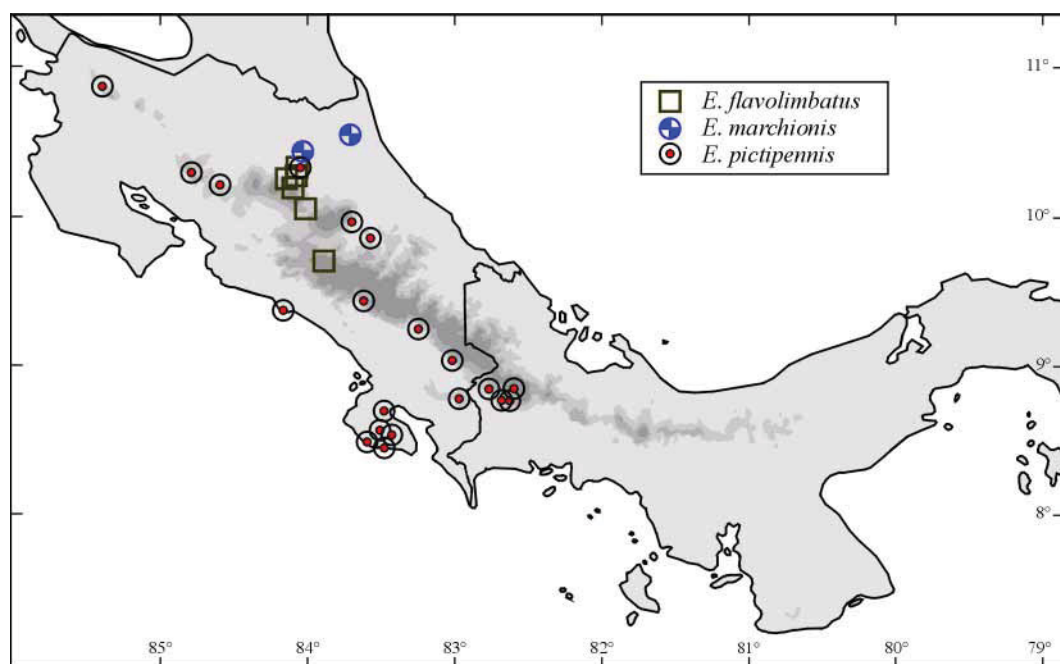
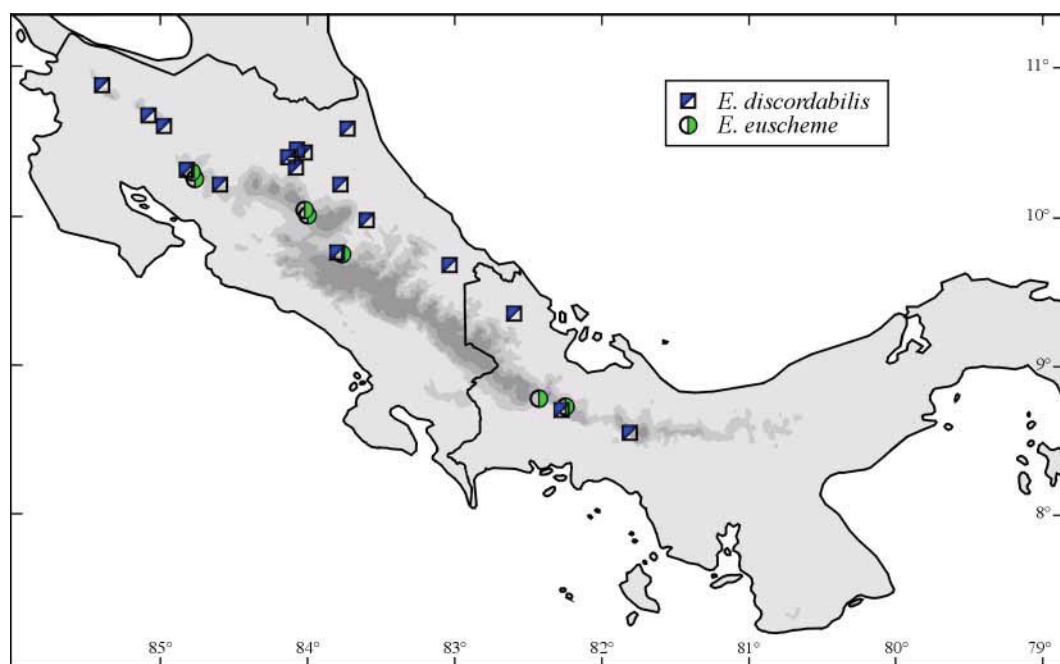
FIGURES 248–249. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **248**, *E. consimilis*, *E. rhombifer*, *E. rutilus* and *E. uniformis*; **249**, *E. euchasma*, *E. gilvopictus*, *E. intermedius* and *E. tetrastigma*



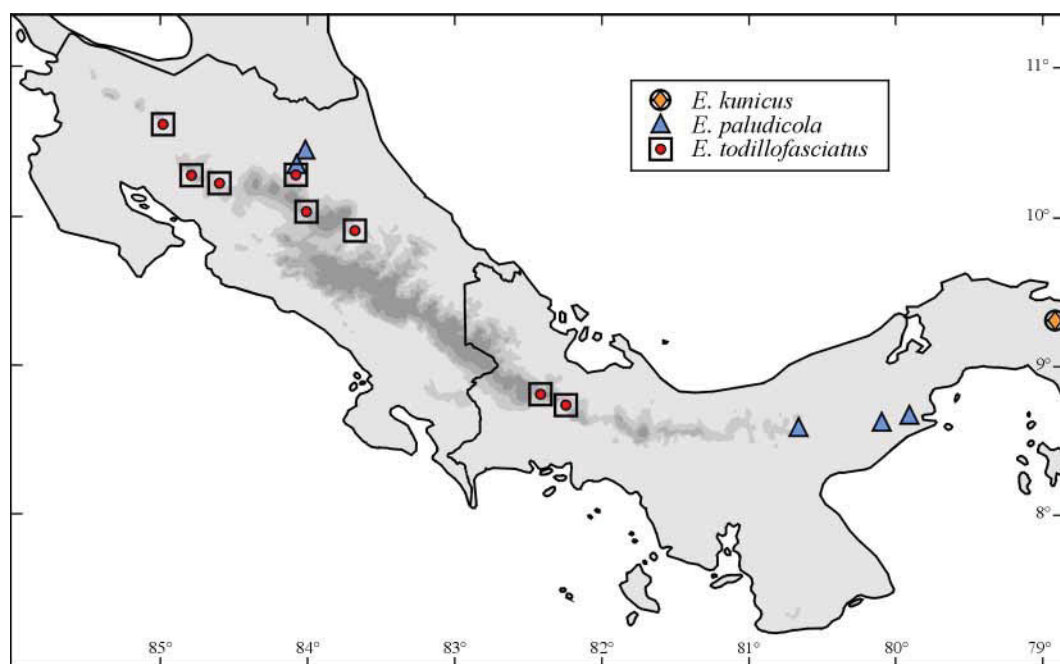
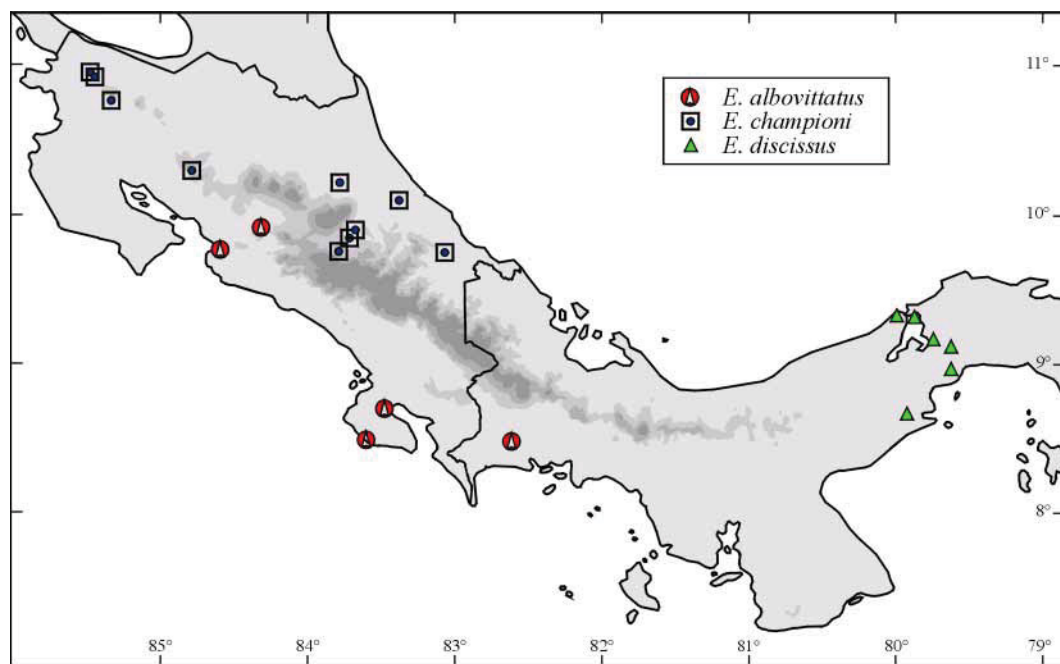
FIGURES 250–251. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **250**, *E. sinuatus*; **251**, *E. leucopleura* (with ssp. *discolor*) and *E. terrabanicus*



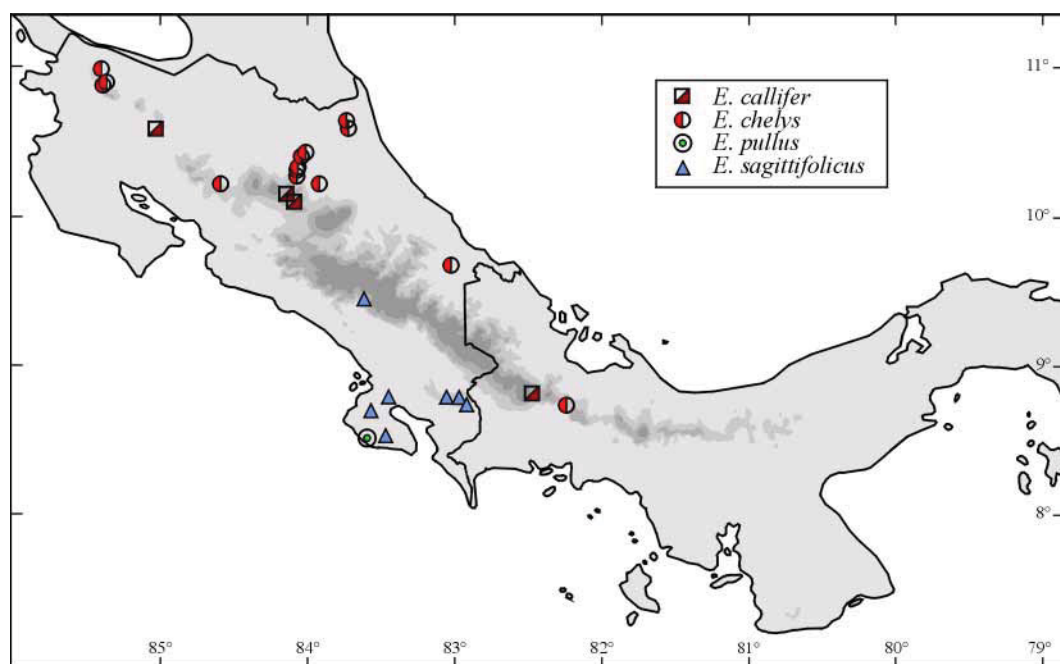
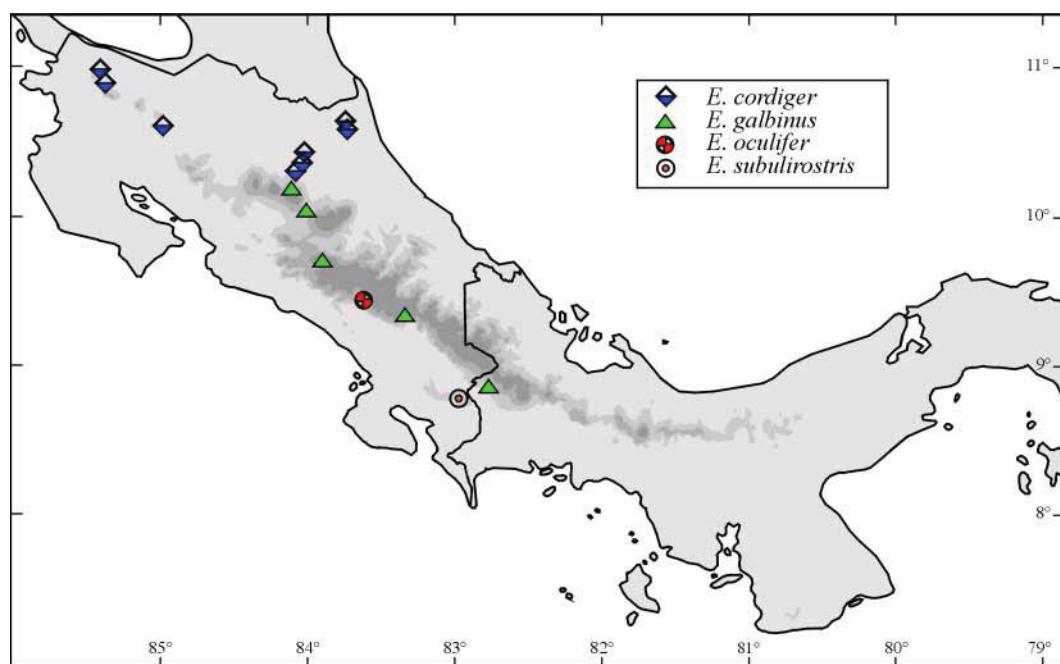
FIGURES 252–253. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **252**, *E. aequiperabilis*, *E. aliquantulus* and *E. crinipes*; **253**, *E. apicalis*, *E. mendax* and *E. paucilimbatus*



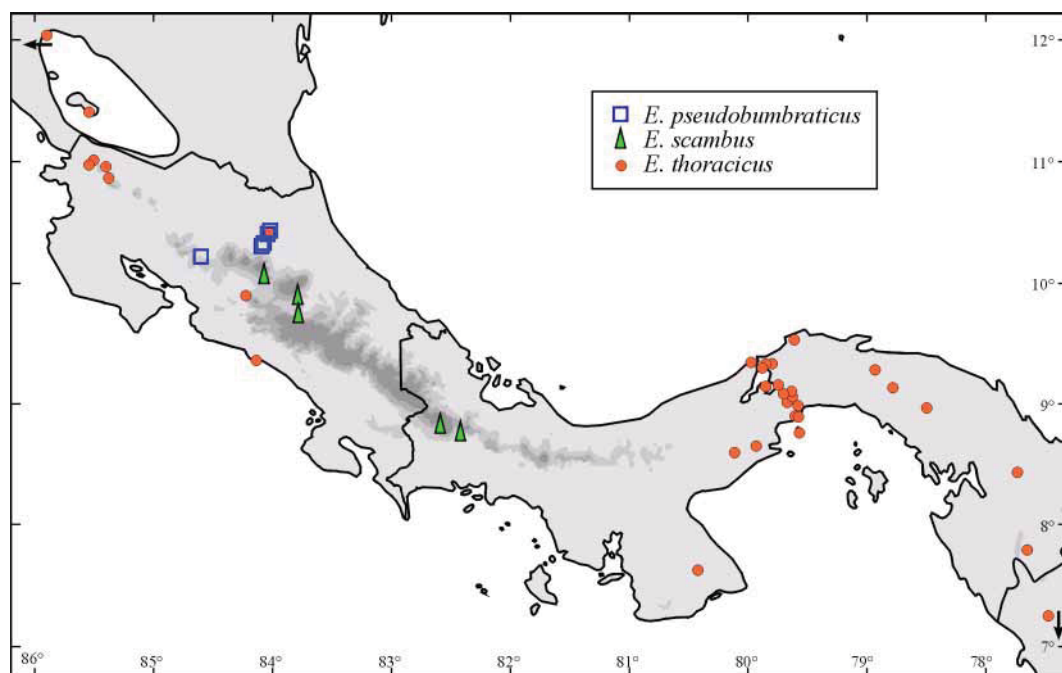
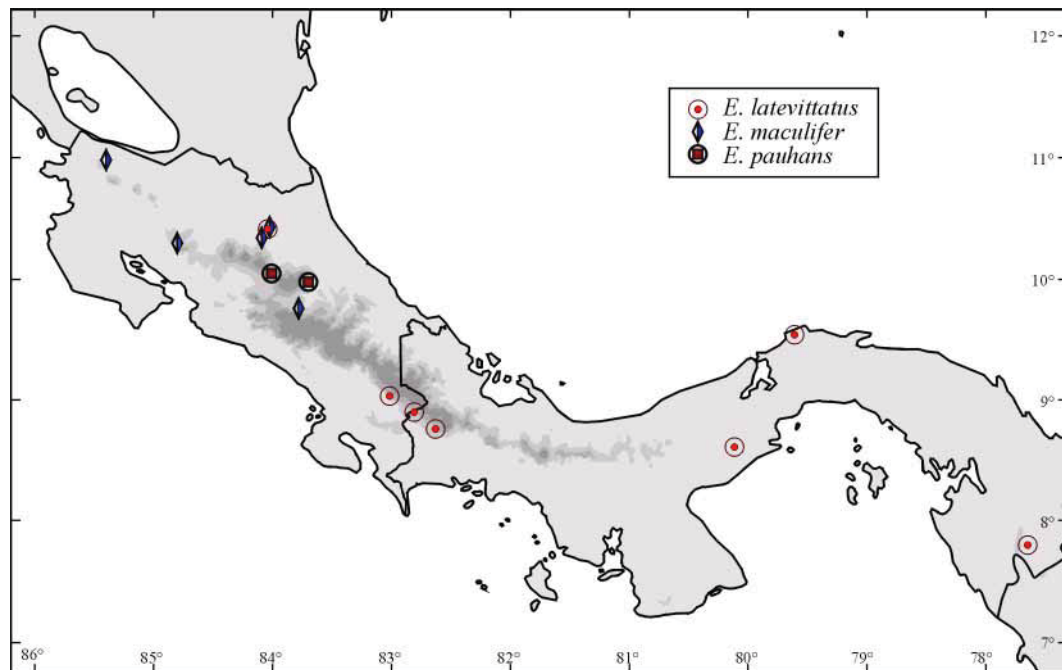
FIGURES 254–255. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **254**, *E. discordabilis* and *E. euscheme*; **255**, *E. flavolimbatus*, *E. marchionis* and *E. pictipennis*



FIGURES 256–257. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **256**, *E. albovittatus*, *E. championi* and *E. discissus*; **257**, *E. kunicus*, *E. paludicola* and *E. todillofasciatus*



FIGURES 258–259. Maps showing collecting sites of species of *Embates* in Costa Rica and western Panama. **258**, *E. cordiger*, *E. galbinus*, *E. oculifer* and *E. subulirostris*; **259**, *E. callifer*, *E. chelys*, *E. pullus* and *E. sagittifolius*



FIGURES 260–261. Maps showing collecting sites of species of *Embates* in Costa Rica and Panama. **260**, *E. latevittatus*, *E. maculifer* and *E. pauhans*; **261**, *E. pseudobumbraticus*, *E. scambus* and *E. thoracicus*

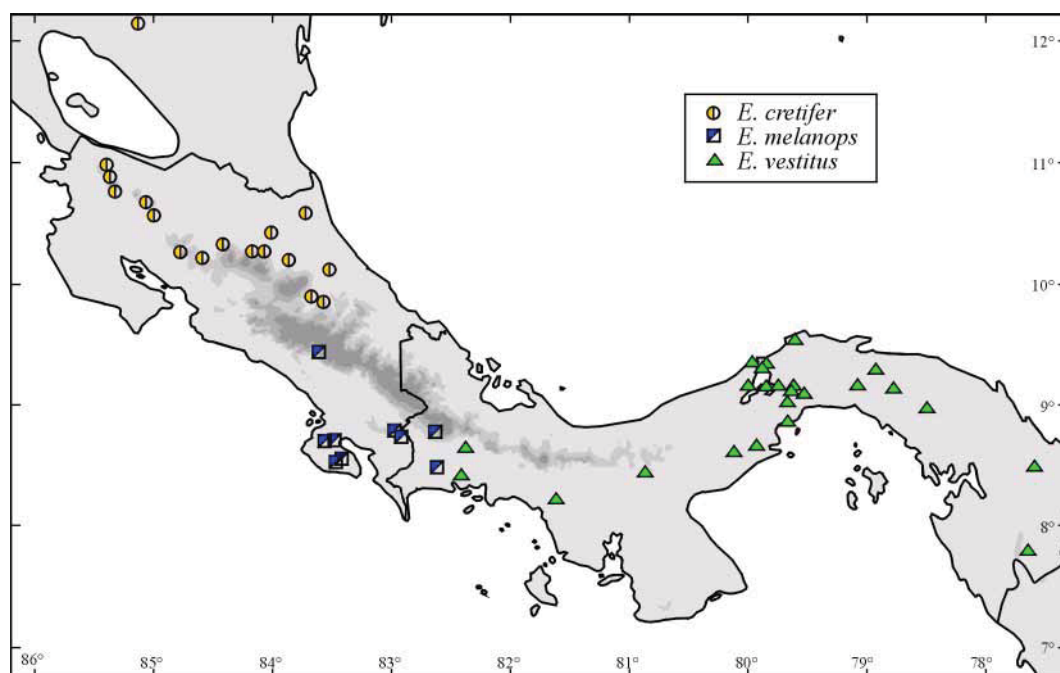


FIGURE 262. Map showing Costa Rica and Panama with collecting sites of *E. cretifer*, *E. melanops* and *E. vestitus*